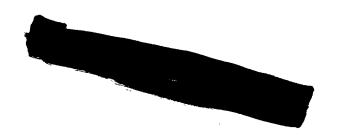
TOP SECRE

THIS DOCUMENT CONTAINS MULTIPLE CODEWORD MATERIAL

TOP SECRET



HOLDERS OF THIS PUBLICATION ARE CAUTIONED THAT THIS DOCUMENT IS A COMPILATION OF SEVERAL VERY SENSETIVE SOURCES AND METHODS, AND SHOULD THEREFORE BE HANDLED ON A LIMITED, NEED-TO-KNOW BASIS.



TOP SECRET

Copy_107

TH 0747-62KH

SOVIET SURFACE - TO - SURFACE MISSILE DEPLOYMENT

	A Repor	t of t	he Deployment	Working	Grou	ıp
			of the			
Guided	Missiles	and	Astronautics	Intellige	nce	Committee

Published by

NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER

TOP SECRET

SOVIET SURFACE - TO - SURFACE MISSILE DEPLOYMENT

TH 0747-62KH 1 January 1962

Published by

NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER

25X1

TH 0747-62KH

The contents of this report do not necessarily reflect the views of the National Photographic Interpretation Center, since the photographic interpretation included represents only a portion of the total informational input; however, the National Photographic Interpretation Center provided photographic interpretation, publication, and reproduction support.

Sanitized Copy Approved for Release 20)11/05/10 : CIA-RDP78T04757A000100010002-6
TOP SECRET	

25X1

TH 0747-62KH

GUIDED MISSILES AND ASTRONAUTICS INTELLIGENCE COMMITTEE

DEPLOYMENT WORKING GROUP

MEMBERSHIP

Air Force, Chairman
Army
Navy
CIA
NSA

NOTE: All correspondence relative to this report should be directed to the Chairman, Guided Missiles and Astronautics Intelligence Committee (GMAIC).

- iii -

TOP SECRET

25<mark>X1</mark>

TOP SECRET

TH 0747-62KH

TABLE OF CONTENTS

		No. Pages
INTRODUCTION	• • • • • • • • • • • • • • • • • • • •	5
PART I Review of Data on ICBM deployment l	ocations	
Location	Tab No.	No. Pages
Itatka ICBM Site	. I-I-1	5
Kostroma ICBM Site	. I-K-1	9
Plesetsk ICBM Site	. I-P-1	14
Shadrinsk ICBM Complex	I-S-1	6
Verkhnyaya Salda Complex	I-V-1	6
Yoshkar-Ola ICBM Complex	I-Y-1	7
Yur'ya ICBM Complex	I-Y-2	10
PART II Review of Data on MRBM deploymen	t locations	
Location	Tab No.	No. Pages
Aluksne MRBM Site	II-A-1	. 3
Balta MRBM Complex	II-B-1	. 5
Barano-Orenburgskoye MRBM Complex	II-B-2	. 6
Belokorovichi MRBM Complex	II-B-3	. 6
Disna MRBM Complex	II-D-1	. 5
Dolina MRBM Complex	II-D-2	. 5
Drogobych MRBM Complex	II-D-3	. 5
Dunayevtsy MRBM Site	II-D-4	. 4
Godykha MRBM Site	II-G-1	. 4
Gomel' MRBM Complex	II-G-2	. 6
Granov MRBM Site	II-G-3	. 4
Gresk MRBM Complex	II-G-4	4

TABLE OF CONTENTS (Continued)

Location	Tab No.	No.	Pages
Gusev MRBM Complex	II-G-5	 •	5
Gvardysk MRBM Complex	II-G-6	 •	6
*Jelgava MRBM Site	II-J-1	 •	
Jonava MRBM Site	II-J-2	 •	4
Korosten' MRBM Site	II-K-1	 •	4
*Kozyany MRBM Site	II-K-2	 •	
Krasnoznamensk MRBM Site	II-K-3		4
Kremovo MRBM Site	II-K-4		4
*Kristinopol MRBM Site	II-K-5	 •	
*Krolevets MRBM Site	II-K-6	 •	
Kurgancha MRBM Complex	II-K-7	 •	5
*Kuritichi MRBM Site	II-K-8		
Mukachevo MRBM Complex	II-M-1		6
Nadvornaya MRBM Complex	II-N-1	 •	6
Novosysoyevka MRBM Site	II-N-2	 •	4
*Ostrov MRBM Site	II-O-1	 •	
Paplaka MRBM Complex	II-P-1	 •	6
Polotsk MRBM Complex	II-P-2	 •	5
*Postavy MRBM Site	II-P-3	 •	
Pruzhany MRBM Complex	II-P-4		5
Rakvere MRBM Complex	II-R-1	 •	5
Sateikiai MRBM Complex	II-S-1	 •	5
Skala-Podol'skaya MRBM Complex	II-S-2	 •	5
Smorgon MRBM Site	II-S-3		4
Sovetsk MRBM Complex	II-S-4	 •	6
Torva MRBM Complex	II-T-1	 •	5
Ukmerge MRBM Complex	II-U-1	 •	5
Uman MRBM Complex	II-U-2		6

TABLE OF CONTENTS (Continued)

Location	Tab No.	No. Pages
Usovo MRBM Complex	II-U-3	. 5
Voru MRBM Complex	II-V-1	. 5
Yel'sk MRBM Complex	II-Y-1	. 5
*Zagare MRBM Complex	II-Z-1	•
Znamensk MRBM Complex	II-Z-2	. 5
PART III Review of Data on R&D and Training	g Facilities	
Location	Tab No.	No. Pages
Chelkar	III-C-1	. 3
Kapustin Yar	III-K-1	. 10
Makat	III-M-1	. 4
Tyura Tam	III-T-1	. 10

^{*}These sites were observed on KEYHOLE photography from Mission 9029 of December 1961. A summary of evidence from all sources on these locations is being processed and will be disseminated to the distribution list when completed.

TH 0747-62KH 5 Pages 1 January 1962

INTRODUCTION

The specific objective of the GMAIC Deployment Working Group (DWG) has been to provide a detailed review and analysis of all data pertinent to the location of medium- and long-range surface-to-surface missile (SSM) sites.

To assist GMAIC in the fulfillment of its responsibilities to USIB on (SSM) deployment, the DWG prepared a report, <u>Soviet Surface-to-Surface Missile Deployment</u>, dated 1 September 1960 (Control No SH-0288/60 and Control No SS-102026).

The above report is superseded by this publication which contains a detailed review of all surface-to-surface ballistic missile sites observed on KEYHOLE photography in the confirmed, probable, and possible categories. Evaluation of locations not covered by usable photography but which are evaluated on the basis of other evidence will be included as supplements to this report.

25X1 25X1

Part I contains a review of data on ICBM deployment locations. To date, ICBM launch pads have been observed in pairs and are referred to as launch sites. Two or more sites are considered launch complexes and are lettered sequentially, i.e., Yur'ya ICBM Launch Complex, Launch Sites A, B, C, and D. The DWG considers this installation with its eight launch pads and associated support facilities, to be typical for second generation ICBM complexes. An analysis of photographic evidence on second generation ICBM sites indicates the launch areas probably will be road served and will be subject to such security measures as fencing, road checkpoints, and location in wooded areas. The support facilities are generally within fenced areas; are served by rail; and contain the

buildings and other facilities necessary to provide housing for personnel and storage, assembly, inspection, and servicing of missiles. Launch complexes are defended by surface-to-air missiles and have excellent road networks with wide-radius turns plus rail-to-road transfer points.

Part II contains a review of data on MRBM* deployment locations. MRBM sites identified to date have four launch pads arranged in two basic configurations, of which there are several modifications. A total of 40 of the first 73 MRBM launch sites identified on KEYHOLE photography are of a configuration referred to as "inline" (Figure 1). The basic characteristic of this configuration is four parallel roads, each serving a launch pad. The four launch pads at each site have been observed in two groups of two. The pairs of pads are placed either along a straight line or are slightly offset. The circular pad areas are approximately 150 to 200 feet in diameter. Generally a drive-through ready building is located on each of the four parallel roads leading to the launch pads. In some cases two pads are served by one ready building. At most launch sites having this configuration a launch support area consisting of three or four buildings is located in the vicinity of the ready buildings.

Twenty-three of the MRBM launch sites observed to date have a "rectangular" configuration or a modification thereof (Figure 2). Each launch site is usually located in a forested area and is road served. A rectangular MRBM launch site has four pads arranged in the form of a rectangle that measures approximately 900 by 535 feet. The pad areas appear to be circular and are about 180 feet across. Typically, each pair of pads making up one of the long sides of the rectangle is connected by a straight road. A large ready building located at the midpoint on the road serves both pads. The launch sites usually have an immediate housing or support area with about ten buildings. Some sites also have an additional support area which usually contains a loop road with a drive-through

^{*}The MRBM is defined as having ranges of 700 and 1,100 nautical miles (nm). Site analysis at this time does not permit a determination of which missile system is deployed at any given site. It should be noted, however, that further analysis may reveal a compatibility of some sites with the longer range IRBM.

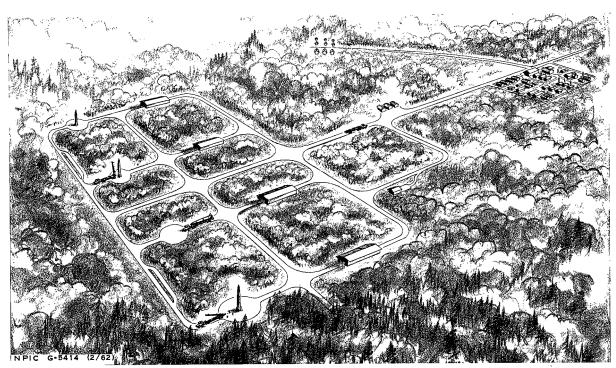


FIGURE 1. TYPICAL "INLINE" MRBM LAUNCH SITE CONFIGURATION.

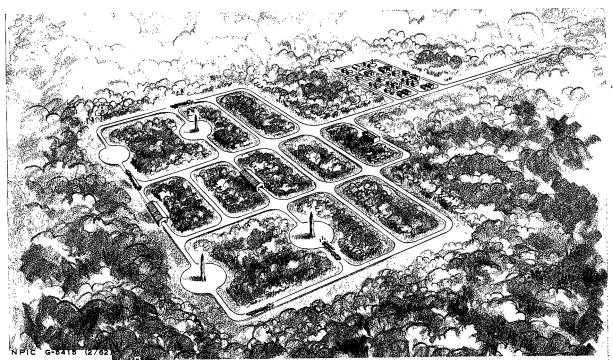


FIGURE 2. TYPICAL "RECTANGULAR" MRBM LAUNCH SITE CONFIGURATION.

building and three or four other service buildings. Modified rectangular launch sites contain the same basic components but vary slightly in their arrangement. The pads of these launch sites are often arranged in the form of a parallelogram or trapezoid.

The majority of MRBM launch sites observed to date are deployed in pairs. These pairs, together with any associated support facilities, are considered to comprise a launch complex and the sites are numbered sequentially, i.e., Paplaka MRBM Launch Complex, Launch Sites 1 and 2. It is possible that the single launch sites observed in KEYHOLE photography to date will eventually be paired. In the interim, these are referred to as sites rather than complexes.

<u>Part III</u> contains a review of data on R & D, training, and major missile-related support facilities. Initially, the facilities at Tyura Tam, Kapustin Yar, Chelkar, and Makatare included. As more evidence becomes available, data on other missile-related installations will be added.

The best indicator for site configurations has been provided by photography of the Soviet missile test ranges. Although the deployed sites may not be identical in every feature with the range prototypes, many of the basic elements seen at the ranges are also present at confirmed sites. For example, the analysis of photography of Launch Complex"C"at Tyura Tam led to the identification of the ICBM launch complexes confirmed to date.

The resolution of KEYHOLE photography precludes an accurate analysis of either operational or construction status. However, judgments on construction status have been made where possible from all-source evidence.

Identifying names of missile complexes used in this document have been carefully selected in an effort to avoid the introduction of a significant number of new names.

In most cases the same names intro-

25X1 25X1

duced by photographic reports or the TDI have been used. To assist in the identification of locations which may currently be named differently, BE numbers have been included with the coordinates of each site.

- 4 -

25X1

TH 0747-62KH

The assessments contained herein are the result of a systematic review of all evidence (photographic) and represent a majority evaluation. In those cases where the assessment was not unanimous, a footnote is added to the bottom of the page reflecting the differences. The following site evaluation criteria, approved by GMAIC, have been used by the DWG in this report:

CONFIRMED

Evidence verifies the installation as an SSM site, complex, or area, either operational or under construction.

PROBABLE

A probable SSM site, complex, or area is one whose existence has been confidently deduced on the basis of <u>extensive</u> reliable <u>evidence</u> which is highly indicative of an SSM site, complex, or area, <u>either operational or</u> under construction.

POSSIBLE

A possible SSM site, complex, or area is one whose existence has been <u>deduced</u> on the basis of <u>evidence</u> which is suggestive or an SSM site, complex, or area, either operational or under construction.

- 5 -

TH 0747-62KH 5 Pages 1 January 1962

NAME: Itatka NO: I-I-1

LOCATION: Launch Site (56-58N 85-33E)

25X1

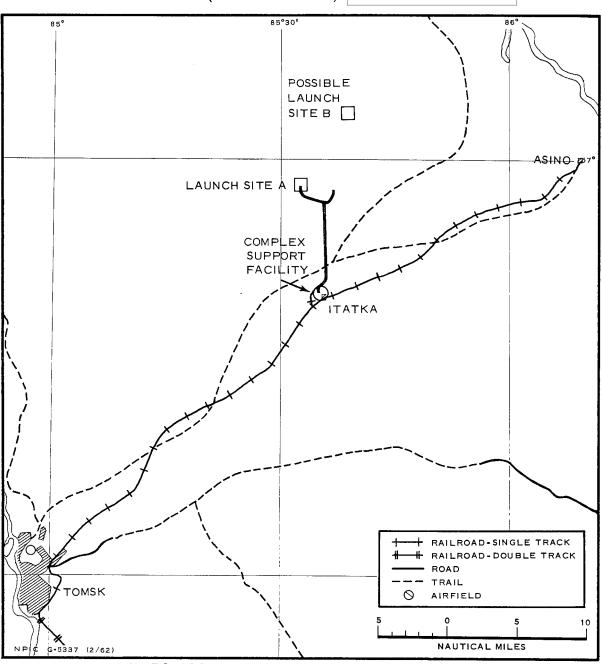


FIGURE 1. LOCATION OF THE ITATKA ICBM LAUNCH COMPLEX.

-1-

25X1

TH 0747-62KH I-I-1

I. Conclusions

Itatka is a confirmed ICBM launch complex.

II. Background

A. Photographic Evidence

The Itatka complex was identified on KEYHOLE photography dated

There was no evidence of the complex on clear TALENT photography of August 1957 or on clear KEYHOLE photography of August 1960. A study of the August 1960 and September 1961 coverages indicates that in 12 months the construction of the complex had progressed to a point where a launch site was identifiable.

The ICBM launch complex under construction at Itatka, about 35 nautical miles (nm) northeast of Tomsk (Figure 1), consists of one launch site and a road- and rail-served support facility. The launch site is approximately 10 nm north of the support facility which is northwest of and adjacent to the town of Itatka.

The launch site (Figure 2) at Itatka is similar to launch sites at other ICBM complexes at Yur'ya, Yoshkar-Ola, and Verkhnyaya Salda. Individual structures in many areas cannot be clearly identified because of cloud haze and the early stage of construction. It has been determined, however, that the launch pad areas are about 1,000 feet apart and that their orientation is approximately 10 degrees. The center road is offset, and clearings for missile-ready buildings are visible. About 3,000 feet to the rear of the launch site is scarring which indicates the probable location of a launch support area. The launch site and complex support facility are connected by an improved road apparently having been built within the past year. At a point where this road turns west to serve the launch site a short eastward extension is visible, indicating that other launch sites may be planned in that direction.

ch

TH 0747-62KH I-I-1

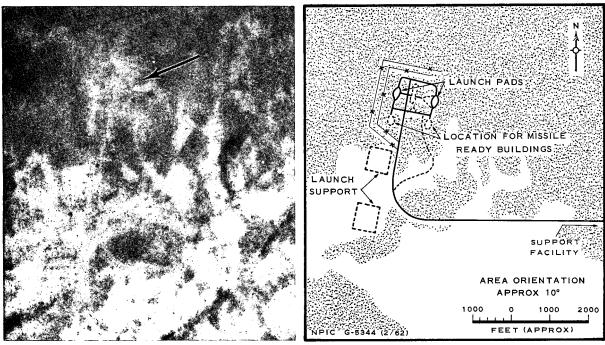


FIGURE 2. ITATKA LAUNCH SITE A.

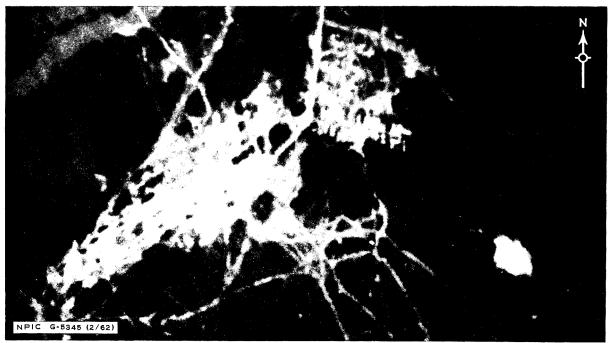


FIGURE 3. ITATKA SUPPORT FACILITY.

TH 0747-62KH I-I-1

The complex support facility (Figure 3) consists of an incomplete barracks area containing at least 20 structures and a rail-served area which may contain at least four terminal rail spurs, open and covered storage, and a possible rail-to-road transfer point.

No SAM sites are noted defending the complex, although the cloud cover in the area may preclude their identification. In addition, the early stage of construction could mean that a SAM defense has not yet been deployed.

	25

Sanitized Copy Approved for Release 2011/05/10 : CIA-RDP78T04757A0001000100	02-6 25X1
TH 0747	-62KH
REFERENCES	
MAPS OR CHARTS	
USATC. Series 200, Sheet 0158-19A, 1st ed., May 59, Scale 1:200,000 (CONFIDENTIAL))
DOCUMENTS	
NPIC. NPIC/B-36/61, Oct 61. (TOP SECRET CHESS	25 X 1
Air. IR-1475579, 11 Oct 61. (CONFIDENTIAL	25 X 1
NSA. 3/O/RUJ/R25-61, 21 Aug 61. (TOP SECRET	25 X 1

NSA. 3/O/RUJ/R26-61, 21 Aug 61. (TOP SECRET

Sanitized Copy Approved for Release 2011/05/10 : CIA-RDP78T04757A000100010002-6 \mathbb{TOP} SECRET |

TH 0747-62KH 9 Pages

1 January 1962

NAME: Kostroma NO: I-K-1

LOCATION: Launch Site A (58-02N 41-21E)

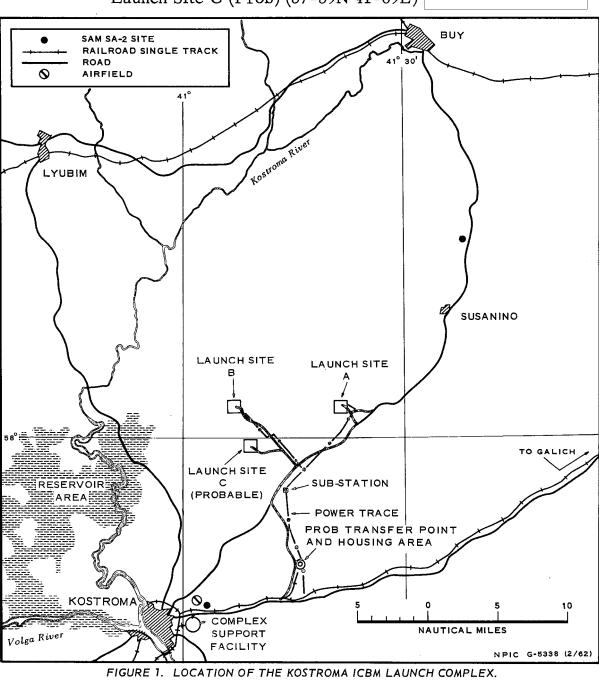
Launch Site B (58-02N 41-07E)

Launch Site C (Prob) (57-59N 41-09E)

-K-1 25X1

25X1

25X1



25X1

TH 0747-62KH I-K-1

I. Conclusions

Kostroma is a confirmed ICBM launch complex.

II. Background

A. Photographic Evidence

An ICBM launch complex with two sites under construction and indications that another area is being readied for construction of a third site has been observed near Kostroma on KEYHOLE photography of (Figure 1).

Launch Site A was first observed on July 1961 photography and was partially obscured. It is located in a forested area 19 nm northeast of Kostroma (Figure 2). Three of the four elongated clearings similar to those observed at known ICBM sites were visible and interconnected by a system of straight roads. Pad orientation is approximately 300 degrees. The road pattern and the arrangement and orientation of the elongated clearings are similar to those at Launch Sites B and D at Yur'ya, at Launch Sites A and B at Yoshkar-Ola, and at Launch Complex C at Tyura Tam. Launch Site A was again observed on KEYHOLE photography of December 1961. At that time the pattern of the launch site was not discernible because of long shadows and snow cover. The launch support area, cloud covered in July 1961, was observed for the first time in December 1961.

Two roads lead to the site from the Kostroma-Buy highway. One of them has wide-radius turns (approximately 350-foot radius) at its intersection with the highway.

The launch support area is generally to the east of the launch pads and contains approximately 35 buildings.

Launch Site A was not evident on KEYHOLE photography of August 1960. A search of this 1960 photography of the Kostroma-Galich railroad revealed no rail spurs under construction in the vicinity of the site.

- 2 -

TH 0747-62KH I-K-1

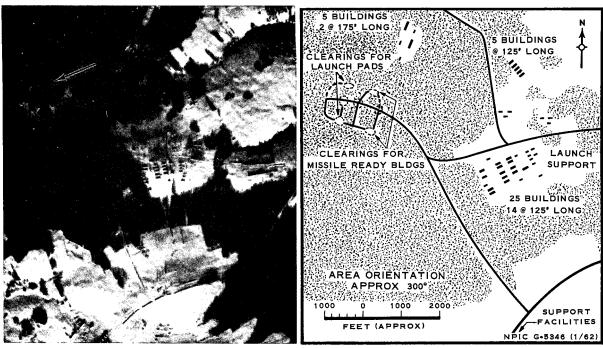


FIGURE 2. KOSTROMA LAUNCH SITE A.

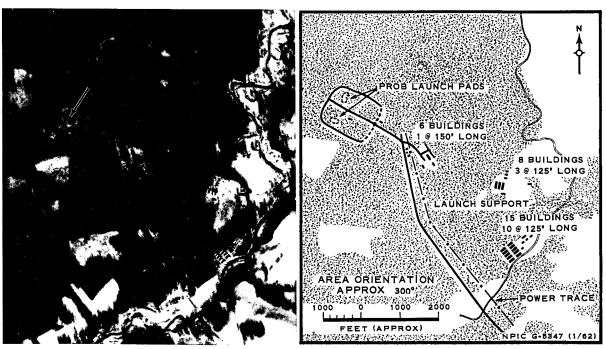


FIGURE 3. KOSTROMA LAUNCH SITE B.

TH 0747-62KH I-K-1

Launch Site B, observed on KEYHOLE photography of December 1961, is located about 7.9 nm west of Site A (Figure 3). Long ground shadows preclude detailed description of the pads; however, their orientation is approximately 290 degrees. A launch support area is noted on the east side of the road about 1,200 feet from the entrance to the launch site.

The probable area for Launch Site C is located approximately 4 nm south of Site B (Figure 4). A road branching off the road to Site B leads to this area. This road was not observed on August 1960 photography. No launch site pattern is discernible on the December 1961 photography, precluding confirmation of this as a launch site. Two SAM SA-2 sites have been confirmed in the immediate area between Kostroma and Buy (Figure 1).

The complex support facility is located on the outskirts of Kostroma at 57-40N41-01E (Figure 5). There is a probable transfer point and housing area about 10 nm east of the complex support facility (Figure 6). Neither of these was present on KEYHOLE photography of August 1960. The complex support facility is rail and road served. A rail spur serving a nearby industry has been extended to serve this facility. There are five, widely spaced, rail sidings within the facility, and in the pattern of sidings and arrangement of buildings the area shows a marked similarity to the complex support facilities at both Shadrinsk and Yoshkar-Ola.

A road leads north from the area and joins the east-west highway out of Kostroma. The area appears to be enclosed by a fence, with security check points on both the road and rail line into the area.

The east-west highway out of Kostroma also provides access to the probable rail-to-road transfer point. The transfer point also is served by a rail spur leading north about 2.3 nm from the Kostroma-Galich rail line. This line provides a direct rail tie with the complex support facility near Kostroma. A road parallels the rail line into the transfer point. The probable transfer point, located in a wooded area, appears to consist of two widely spaced rail sidings and about 30 buildings.

TH 0747-62KH I-K-1



FIGURE 4. KOSTROMA PROBABLE LAUNCH SITE C.

TH 0747-62KH I-K-1



FIGURE 5. KOSTROMA SUPPORT FACILITY.

TH 0747-62KH I-K-1



FIGURE 6. KOSTROMA PROBABLE TRANSFER POINT AND HOUSING AREA.

Sanitized Copy Approved for Release 2011/05/10 : CIA-RDP78T04757A000100010002-6 TOP SECRET	25X1
TH0747-62KH I-K-1	
A well-engineered road leads north out of the area and joins the Kostroma-Buy highway which gives access to the one probable and two confirmed launch sites.	
	25X1

	11/05/10 : CIA-RDP78T04757A000100010002-6	25X1
TOP SECRET	TH 0747-62KH	20/1
	IH 0/4/-02KH I-K-1	

REFERENCES

MAPS OR CHARTS

USATC. Series 200, Sheet 0154-14A, 1st ed., Nov 58, Scale 1:200,000. (SECRET)

DOCUMENTS

NPIC. OAK 9029, Pt 2, 23 Dec 61. (TOP SECRET	25X1
NPIC. NPIC/B-18/61, Aug 61. (TOP SECRET	25X1
Air, AFSSOP. RU-61-190-13, 18 Sep 61. (TOP SECRET	25X1
NSA. 3/O/RUJ/R25-61, 21 Aug 61. (TOP SECRET	25X1
NSA. 3/J/RUA/R1432-61, 22 Sep 61. (TOP SECRET	25X1
NSA. 2/BRU/C1956, DTG 201446Z, 20 Sep 61. (SECRET	25 <mark>X</mark>

- 9 -

TH 0747-62KH 14 Pages 1 January 1962

NAME: Plesetsk NO: I-P-1

LOCATION: City (62-56N 40-31E)

25X1

25X1

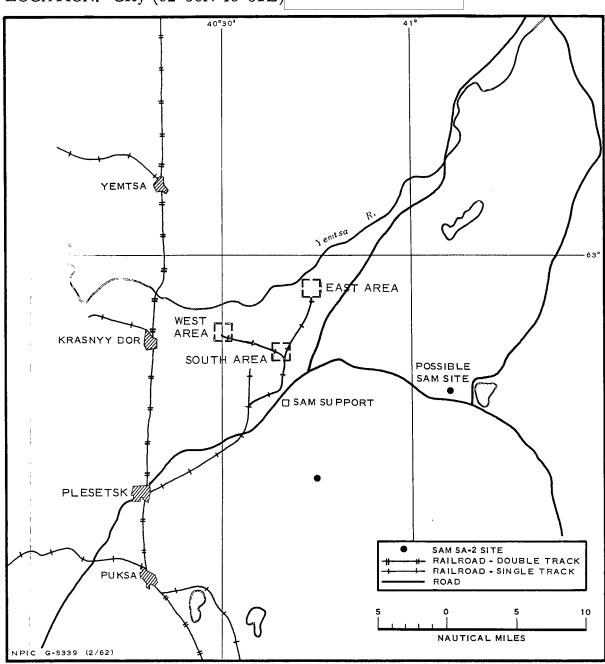


FIGURE 1. LOCATION OF THE PLESETSK PROBABLE ICBM DEPLOYMENT AREA.

25X1

25X1

TH 0747-62KH I-P-1

I. Conclusions

Plesetsk is a probable* ICBM deployment area.

II. Background

A. Photographic Evidence

The information presented below was obtained primarily from KEY-HOLE Missions (June and July 1961). Supplementary and corroborating material was taken from KEYHOLE Missions (August and December 1960) and from German photography of 1942 and 1943.

On the basis of photography alone, activity in the Plesetsk area remains undetermined. The observed areas did not reveal any activity that could be positively identified as being associated or related to ICBM activity. However, due to photographic limitations imposed on interpretation, ICBM activity cannot be negated in this area.

The major reasons for continued suspicion of ICBM activity are as follows: (2) the presence of surface-to-air missile defenses; and (3) the presence of an unusual, secured, road- and rail-served installation of unknown function.

A complex of three large areas of unidentified activity is located approximately 15 nm northeast of Plesetsk and 8 nm east of the Vologda-Arkhangel'sk rail line (Figures 1 and 2). Access to the complex is by good road and a rail spur from the town of Plesetsk.

The areas of the complex are designated the West, South, and East Areas. The West Area (Figures 3 and 4) contains an unidentified secured installation, a possible storage facility, and a housing development. The South Area (Figures 5 and 6) contains large industrial-type buildings and a large possible storage facility with associated housing. Cloud cover and poor quality photography preclude any description of the East Area.

- 2 -

^{*}Three members voted probable and two members voted possible.

TH 0747-62KH I-P-1

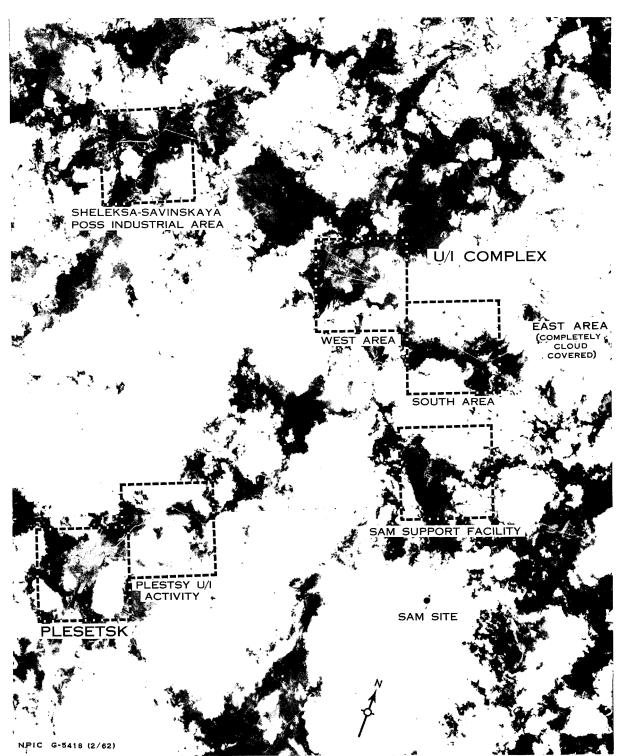


FIGURE 2. 1961 KEYHOLE PHOTOGRAPHY OF THE PLESETSK AREA.

25X1

TH 0747-62KH I-P-1

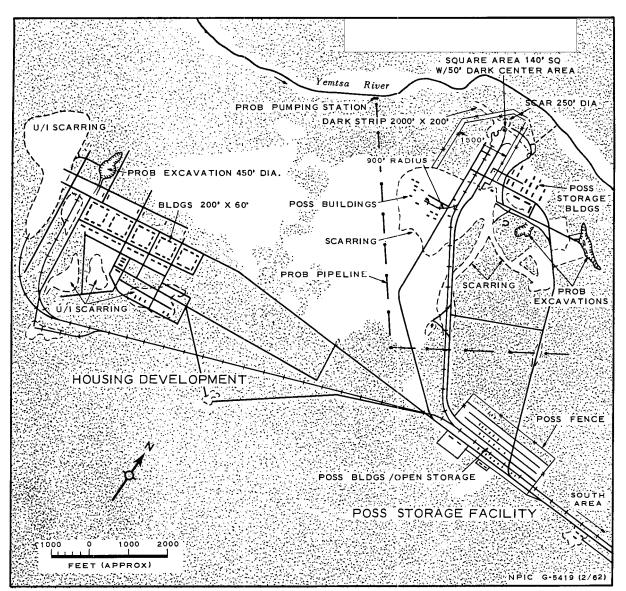


FIGURE 3. PLESETSK WEST AREA.

A possible industrial area (Figures 7 and 8) near Sheleksa - Savinskaya is located approximately 5 nm north-northwest of Plesetsk. The area is served by a rail spur which branches from the main line at Sheleksa. This area appears to have no direct connection with the other unidentified areas mentioned area. The area includes a rail yard and an adjacent installation, possibly a cement plant.

TH 0747-62KH I-P-1

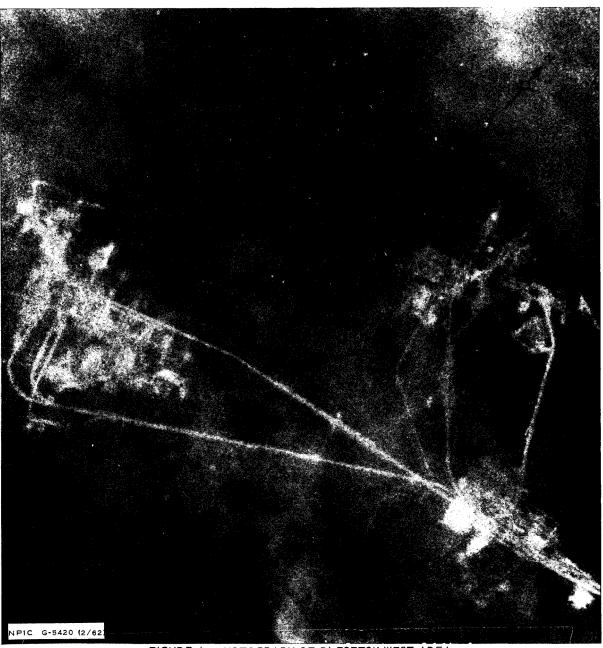


FIGURE 4. PHOTOGRAPH OF PLESETSK WEST AREA.

There is a SAM support facility (Figure 2) located one nm southwest of the town of Kochmas and 12 nm northeast of Plesetsk. One confirmed SAM launch site has been identified 5.6 nm south of the SAM support

TH 0747-62KH I-P-1

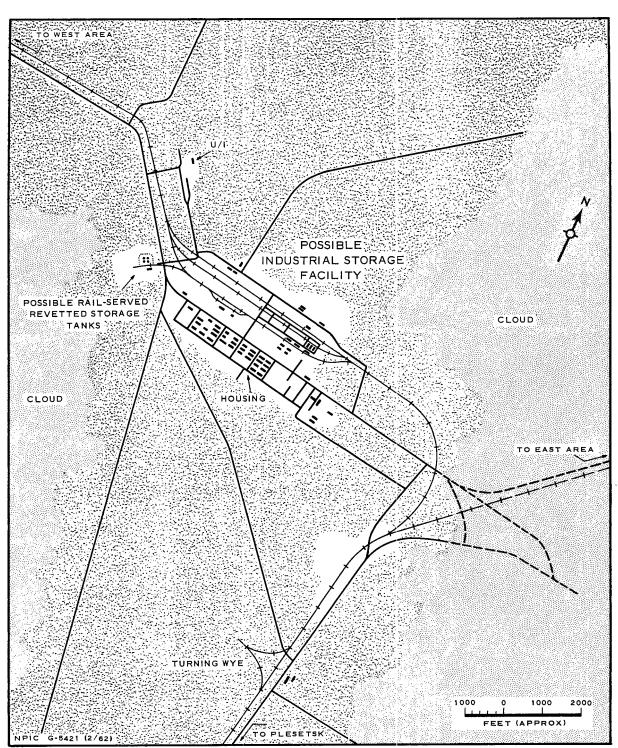


FIGURE 5. PLESETSK SOUTH AREA.

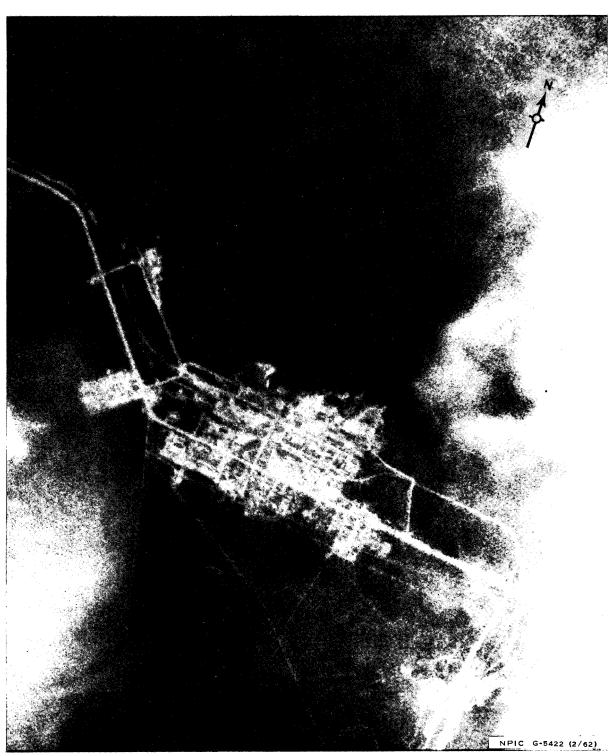


FIGURE 6. PHOTOGRAPH OF PLESETSK SOUTH AREA

facility and 11.8 nm east of Plesetsk. Another possible SAM site is located $12\ \mathrm{nm}$ east of the SAM support facility and $23\ \mathrm{nm}$ east-northeast of Plesetsk.

An additional unidentified activity in a road- and rail-served area is located immediately south of Plestsy and 3 nm north-northeast of Plesetsk

(see Figure 2). 25X1 - 8 -



25X1

TH 0747-62KH I-P-1

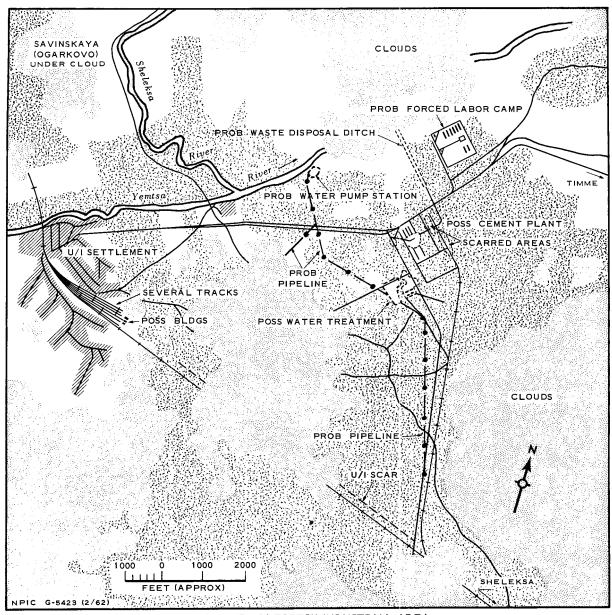
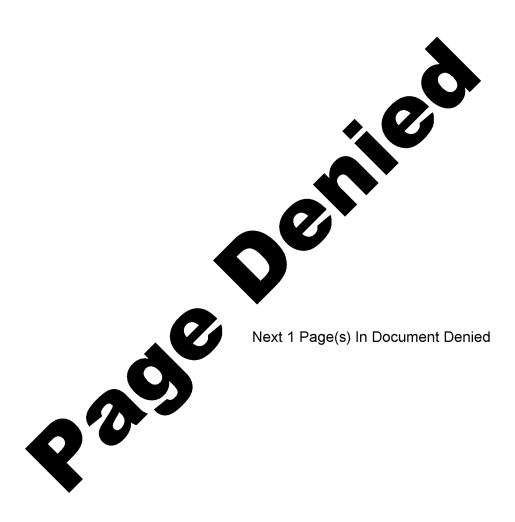


FIGURE 7. PLESETSK INDUSTRIAL AREA.



FIGURE 8. PHOTOGRAPH OF PLESETSK INDUSTRIAL AREA.



Sanitized Copy Approved for Release 2011/05/10 : CIA-RDP78T04757A000100010002-6	25X1
TH 0747-62KH I-P-1	
REFERENCES	
MAPS OR CHARTS	
USATC. Series 200, Sheet 0102-9AL, 1st ed., Aug 59, Scale 1:200,000. (CONFIDENTIAL)	
DOCUMENTS	
NPIC. NPIC/R-4/61, Aug 61. (TOP SECRET CHESS	25X1
Air, AFSSOP. SWESUM 60-2, 11 Mar 60. (TOP SECRET	25 X 1
CIA. FPN Listing, Jan 60. (TOP SECRET	25 X 1
CIA. Report, 18 Feb 59 (SECRET)	
NSA. Files on Flight Activity, 1960. (TOP SECRET	25 X 1
NSA. 3/O/RUM/R73-58, 20 Aug 58. (TOP SECRET	25 X 1
NSA. 3/O/RUM/T180-58, 23 Apr 58. (TOP SECRET	25 X 1
NSA. 3/O/RUGM/R127-61, 3 Apr 61. (TOP SECRET	25 X 1
NSA. 3/O/RUGM/R497-61, 15 Nov 61. (TOP SECRET	25 X 1
NSA. 3/J/RUA/R1401-61, 15 Sep 61. (TOP SECRET	2 5X 1
	25 X 1
Air, Moscow. IR-1250390, 8 May 59. (SECRET)	
Navy, Moscow. 13-S-60, 18 Feb 60. (SECRET)	

- 14 -

25X1

Sanitized Copy Approved for Release 2011/05/10 : CIA-RDP78T04757A000100010002-6

25X1

25X1

TH 0747-62KH 6 Pages 1 January 1962

NAME: Shadrinsk

NO: I-S-1

LOCATION: Launch Site A (56-09N 63-52E)

Launch Site B (56-10N 64-03E)

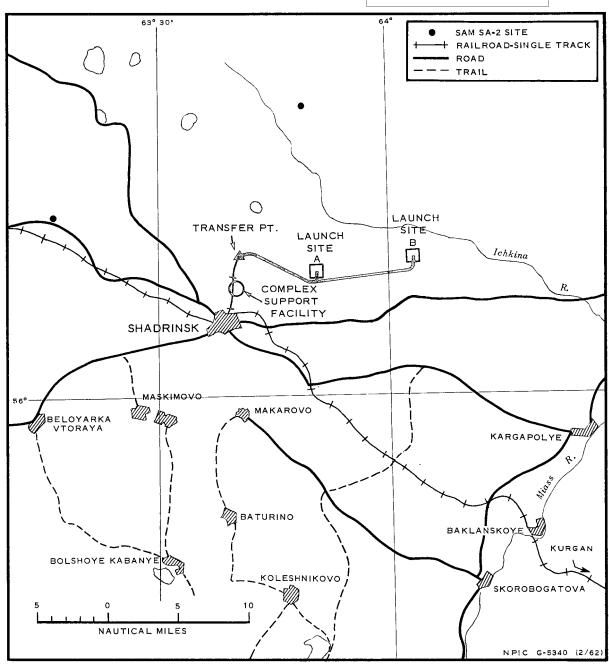


FIGURE 1. LOCATION OF THE SHADRINSK ICBM LAUNCH COMPLEX.

I. Conclusions

Shadrinsk is a confirmed ICBM complex.

II. Background

A. Photographic Evidence

An ICBM launch complex has been identified just northeast of the town of Shadrinsk and 110 nm east-southeast of Sverdlovsk on KEYHOLE photography of December 1961. This makes the sixth deployed complex identified to date on KEYHOLE photography. The general layout of the complex strongly resembles the one at Yoshkar-Ola. Two SAM sites have been observed in defense of the complex. One was identified on Mission indicating that the complex may have been under construction since that time. There was no coverage of the immediate area of the complex on this mission however.

The complex consists of a large rail-served support facility and two road-served launch sites each with an adjacent small support area (Figures 1 and 4).

The main complex support facility consists of housing, administration, storage (both open and covered), and maintenance areas. These facilities are grouped around four or possibly five parallel rail sidings. A rail-to-road transfer point is located about 2.3 nm north of the base support.

The ground was snow covered at the time of the photography and none of the roads within the complex had been cleared with the exception of the road from Shadrinsk to the support facility.

The locations of Launch Sites A and B are apparent, although the identifying signatures cannot be distinguished. This may be due to the snow cover and long shadows, or construction may still be in such an early stage that the pattern has not yet been formed.

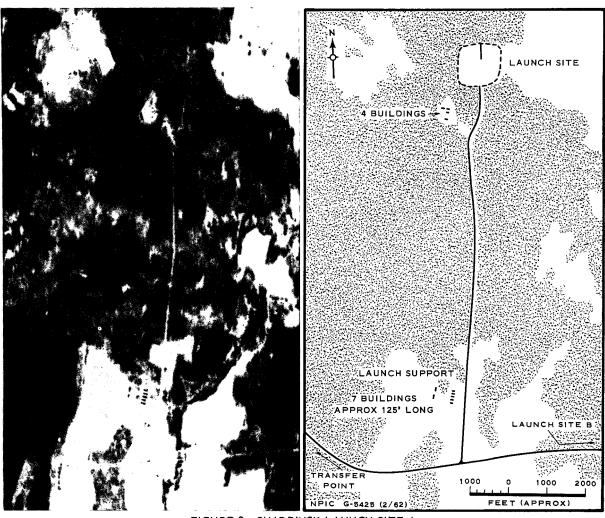


FIGURE 2. SHADRINSK LAUNCH SITE A.

Launch Site A is located about 8.3 nm by road from the transfer point (Figure 2). At least seven structures can be recognized as part of the immediate support.

Launch Site B is located approximately 7.5 nm east of Site A and 15.3 nm by road from the transfer point (Figure 3). Several structures are recognizable as a part of the launch support.

Launch Sites A and B are generally parallel to each other but neither pattern is sufficiently apparent to obtain the azimuth of the pads.

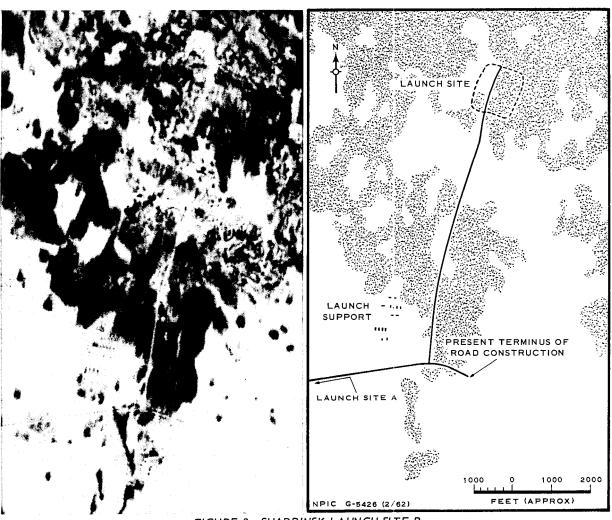


FIGURE 3. SHADRINSK LAUNCH SITE B.

The main road serving both launch sites terminates approximately 1,300 feet east of the turn-off to Site B, thus indicating the most likely direction of future expansion.

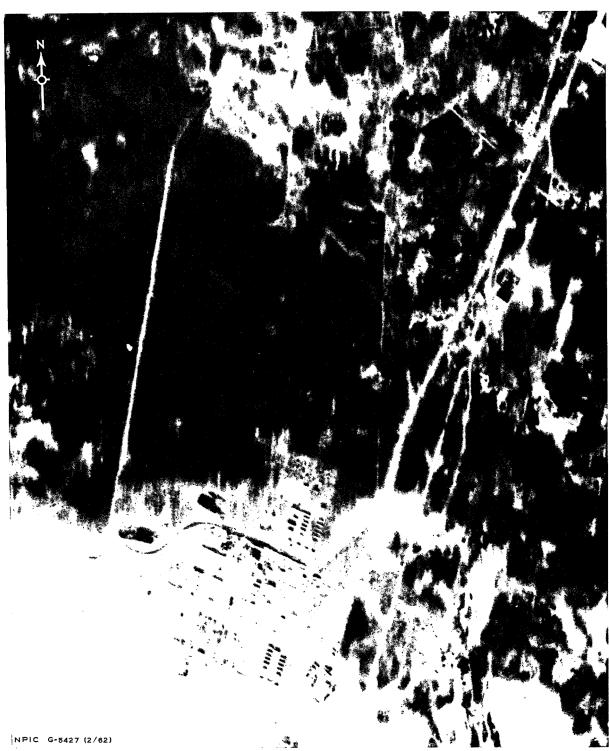


FIGURE 4. SHADRINSK SUPPORT FACILITY.

Sanitized Copy Approved for Release 2011/05/10 : CIA-RDP78T04757A000100010002-6
TH 0747-62KH I-S-1

REFERENCES

MAPS OR CHARTS

USATC. Series 200, Sheet 0156-24A, 2nd ed., Oct 59, Scale 1:200,000. (SECRET)

DOCUMENTS

NPIC. OAK 9029, Supplement 4, 29 Dec 61. (TOP SECRET

NPIC. NPIC/B-41/61, Nov 61. (TOP SECRET

25X1

25X1

25X1

TH 0747-62KH 6 Pages 1 January 1962

NAME: Verkhnyaya Salda

LOCATION: Launch Site A (58-09N 60-16E)

Launch Site B (58-06N 60-22E)

___NO: I-V-1

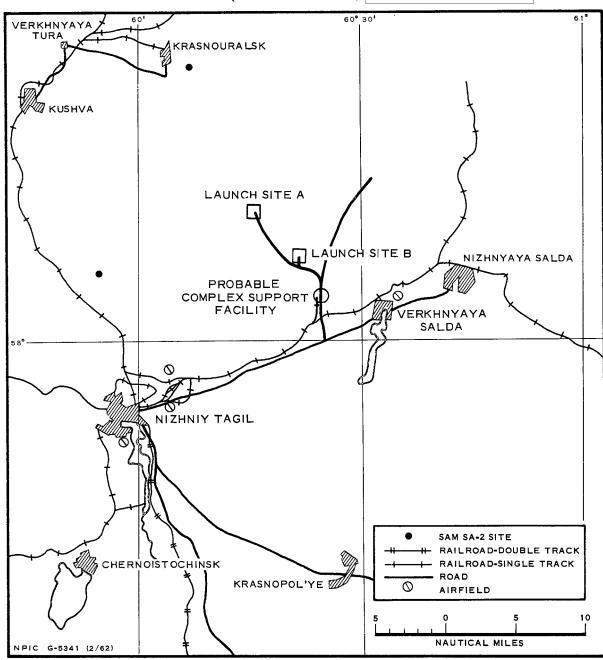


FIGURE 1. LOCATION OF THE VERKHNYAYA SALDA ICBM LAUNCH COMPLEX.

- 1 -

I. Conclusions

Verkhnyaya Salda is a confirmed ICBM launch complex.

II. Background

A. Photographic Evidence

This ICBM launch complex, with two road-served launch sites and a road- and rail-served support facility have been confirmed on KEYHOLE photography of August-September 1961. The complex is located in a forested area approximately 6 nm northwest of Verkhnyaya Salda (Figure 2).

The two launch sites and the support facility are considered to have

been in the late stage of construction in mid 1961. Two SA-2 SAM sites have been identified in the vicinity of the complex. One site, identified as early as July 1959 (is 15 nm west of the complex. 25X1 The other, first identified on September 1961 photography, is 15 nm north of the complex. The nearest airfield which could support operations at the complex is 13 nm to the southwest, near Nizhniy Tagil. The area of the Verkhnyaya Salda ICBM launch complex was covered 25X1 by photography of The only activity observed was a rail spur under construction leading north from the Nizhniy Tagil/Verkhnyaya Salda rail line at a point 13 nm east-northeast of Nizhniy Tagil. The spur apparently terminates near the area of the probable support facility, which 25X1 is faintly visible on the July 1961 photography. Also visible in July 1961, but not identifiable, were the locations of the two ICBM launch sites (A and B). In addition, this photography shows a road (new since 1959) which leads north from the main Nizhniy Tagil/Verkhnyaya Salda road, runs through the probable support facility, and continues north-northeast for approximately 10 nm.

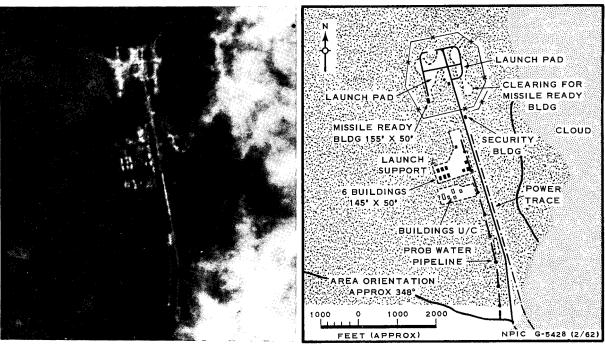


FIGURE 2. VERKHNYAYA SALDA LAUNCH SITE A.

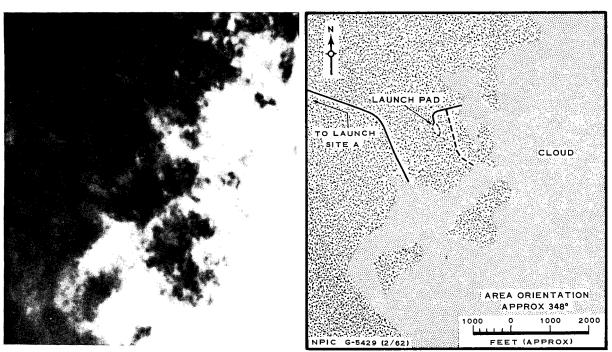


FIGURE 3. VERKHNYAYA SALDA LAUNCH SITE B.

Launch Site A is 2.5 nm east-southeast of Yasva. This launch site, in a late stage of construction, is road served and is enclosed by a seven-sided fence (Figure 2). The fenced area measures approximately 2,100 by 1,800 feet overall and covers about 85 acres. A second fence is under construction along the southeast side. The size and configuration of the loop-road system and the clearings for the two launch pads are similar to those at Yur'ya, Yoshkar-Ola, Tyura Tam Launch Complex C, and Kostroma. No vehicle stalls can be identified at either pad area, and the pad size cannot be determined.

Although the entire loop-road system cannot be seen, enough of the pattern is visible to indicate a pad orientation of approximately and a pad separation of 1,000 feet. The road between the pads and parallel to the long axis of the pads is offset to the east. A similar offsetting is evident at Yur'ya and Yoshkar-Ola. Behind one pad area is a missile-ready building measuring 155 by 50 feet. A clearing is visible for a second missile-ready building behind the other pad area.

A support area, containing at least ten completed buildings and four apparently under construction, is located about 2,500 feet south of the launch site. Six of the ten completed structures are barracks-type buildings measuring 145 by 50 feet. As one-story structures, these six buildings could accommodate 290 men on the basis of 150 square feet per man.

Launch Site B (Figure 3) is 21,200 feet southeast of Launch Site A and was about 75 percent cloud covered on photography of September 1961. Part of the loop-road system and the pad to the west were visible. This visible portion appeared to be more nearly complete than its counterpart at Launch Site A.

The probable complex support facility (58-03N 60-25E) consists of two large clearings, one on each side of the service road for the complex, measuring approximately 6,000 by 1,000 feet. Darkness and small scale preclude further interpretation.



Sanitized Copy A	Approved for Release TOP SECRET	e 2011/05/10 : CIA-RDP78T04757	A000100010002-6 25X
TH 0747-62KH I-V-1	[•	
			25X

REFERENCES

MAPS OR CHARTS

USATC. Series 200, Sheet 0156-13A, 2nd ed., Oct 59, Scale 1:200,000. (SECRET)

DOCUMENTS

NPIC.	NPIC/B-30/61, Oct 61. (TOP SECRET
NSA.	3/O/RUGM/T223-58, 26 Aug 57. (TOP SECRET
NSA.	3/O/RUGM/T485-57, 26 Apr 57. (TOP SECRET
NSA.	3/O/RUM/T162-59, 26 Apr 59. (TOP SECRET
NSA.	US 989-768/11, 29 Jul 55, SMO No 1 (1956). (TOP SECRET
NSA.	3/O/RUGM/T861-57, 3 Jun 57. (TOP SECRET
NSA.	3/O/RUY/R91-56, 8 Jun 56. (TOP SECRET
NSA.	4/O/RUM/R17-59, 27 May 59. (TOP SECRET
NSA.	3/J/RUA/R1633-61, 1 Dec 61. (TOP SECRET

- 6 -

25X1

25X1 25X1 25X1

25X1

25X1 25X1

25X1

25X1 25X1 25**X**1 Sanitized Copy Approved for Release 2011/05/10 : CIA-RDP78T04757A000100010002-6

TOP SECRET

25X1

25X1

TH 0747-62KH 7 Pages 1 January 1962

NAME: Yoshkar-Ola

NO: I-Y-1

LOCATION: Launch Site A (56-35N 48-10E)

Launch Site B (56-35N 48-18E)

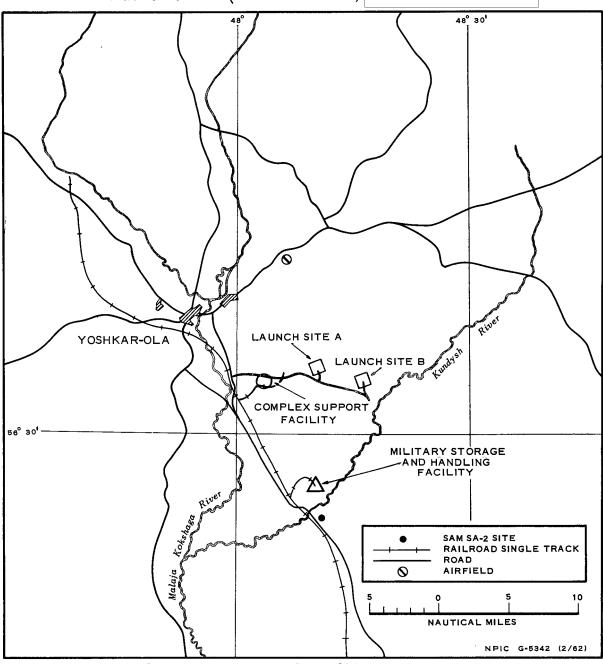


FIGURE 1. LOCATION OF THE YOSHKAR-OLA ICBM LAUNCH COMPLEX.

TOP SECRET

TH 0747-62KH I-Y-1

I. Conclusion

Yoshkar-Ola is a confirmed ICBM launch complex.

II. Background

A. Photographic Evidence

KEYHOLE photography of June and October 1961 revealed an ICBM launch complex with Launch Sites A and B under construction in a densely forested area 7 nm southeast of Yoshkar-Ola (Figure 1). Launch Site A (Figure 2) was observed in June at which time there was no evidence of a second launch site. Launch Site B was observed under construction, 4.7 nm east of Launch Site A, in October, indicating that features which permit identification of an ICBM launch site can be constructed in 4 months or less. The complex, as observed to date, consists of two road-served launch sites and a support area served by both road and rail. Each road-served launch site consists of two elongated pads approximately 1,000 feet apart and with an orientation of approximately 335 degrees. The clearings for probable missile ready buildings are visible at both launch sites. At Launch Site A, an unidentified area on the north side of the main road appears to contain buildings and may be local support for this site. At Launch Site B (Figure 3), a cleared area near the junction of the launch site access road is probably for local support. Another road-served cleared area at Launch Site B contains a road forming a rectangular pattern. A structure, probably a drive-through building, straddles a sector of this road. The road configuration and the arrangement and orientation of the pads at the launch sites conform to those at Launch Site D of the Yur'ya ICBM complex.

The launch sites are connected by a straight, improved road to a support facility located approximately 4.5 nm west of Launch Site A (Figure 4). This support facility consists of two areas. The larger area, approximately 3,200 by 3,000 feet, is situated between the road and rail

TOP SECRET

TH 0747-62KH I-Y-1

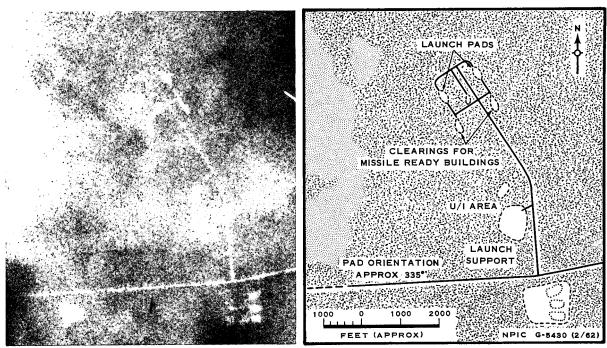


FIGURE 2. YOSHKAR-OLA LAUNCH SITE A.

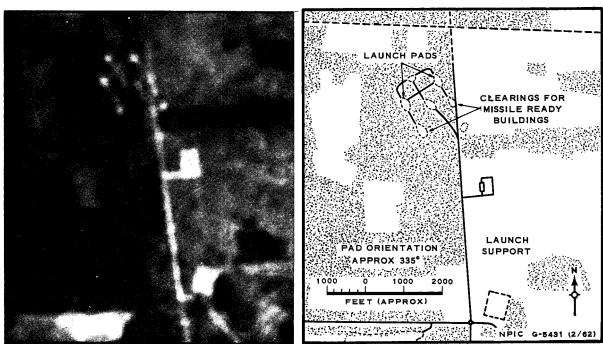


FIGURE 3. YOSHKAR-OLA LAUNCH SITE B.

25X1

TH 0747-62KH I-Y-1

spur, and is served by four rail sidings. The patterns of these sidings and the support facilities were seen again at both Kostroma and Shadrinsk. A rail spur continues eastward and terminates in a rail-to-road transfer point. A few roads traverse the area, but no definite road pattern is in evidence.

The smaller area, approximately 2,000 by 1,200 feet, is located to the southwest of and connected by road to the largest area. The rail spur runs past this smaller area, but no siding can be identified. Although partially obscured by cloud shadow, it appears to have a road pattern characteristic of a family-type housing development. Building construction is in evidence.

The complex is served by a rail spur which leaves the Yoshkar-Ola/Kazan' rail line from the direction of Yoshkar-Ola.

The nearest airfield which could support the complex is located near Yoshkar-Ola. It has an 8,300-foot paved runway. Three other airfields are located about 60 nm to the southeast, around Kazan'.

The main road connecting the launch sites continues eastward past Launch Site B and appears to terminate in a forest. The distance between the launch sites is commensurate with the distances between the launch sites at the Yur'ya complex and suggests that possibly other launch sites are planned to the southeast.

An SA-2 SAM site is under construction, 12 nm south of the complex. No other evidence of security was observed.

Clear TALENT photography of February 1960 showed that none of these complex facilities were present. The same photography showed a large rail-served military storage and handling facility, 9 nm south of the complex which has remained substantially unchanged in later coverage. This facility is not believed to be associated with the missile complex.

25X1

- 4 -

TOP SECRET

TH 0747-62KH I-Y-1



FIGURE 4. YOSHKAR-OLA SUPPORT FACILITY.



Sanitized Copy Approved for Release 20	011/05/10 : CIA-RDP78T04757A00	0100010002-6
TOP SECRET		

25X1

25X125X125X1

25X1 25X1

25X1

TH 0747-62KH I-Y-1

REFERENCES

MAPS OR CHARTS

USATC. Series 200, Sheet 0155-22A, 1st ed., Oct 59, Scale 1:200,000. (SECRET)

DOCUMENTS

NPIC.	NPIC/R-2/61, Jul 61. (TOP SECRET
NSA.	2/BRU/C1956, DTG 201446Z, 20 Sep 61. (SECRET
NSA.	3/J/RUA/R1432-61, 22 Sep 61. (TOP SECRET
NSA.	3/O/RUGM/R349-61, 25 Aug 61. (TOP SECRET
NSA.	3/O/RUJ/R25-61, 21 Aug 61. (TOP SECRET
NSA.	3/O/RUJ/R26-61, 21 Aug 61. (TOP SECRET

- 7 -

Sanitized Copy Approved for Release 2011/05/10 : CIA-RDP78T04757A000100010002-6 \mathbb{TOP} \mathbb{SECRET} |

25X1

25X1

TH 0747-62KH 10 Pages 1 January 1962

NAME: Yur'ya

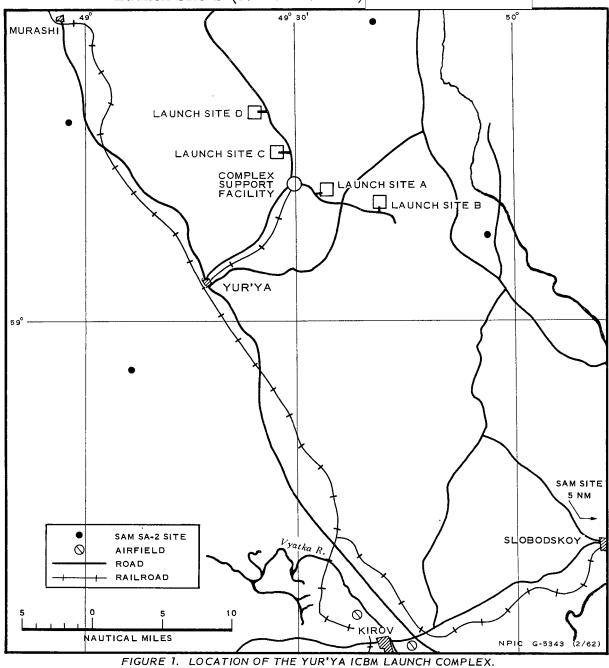
NO: I-Y-2

LOCATION: Launch Site A (59-09N 49-33E)

Launch Site B (59-08N 49-41E)

Launch Site C (59-12N 49-28E)

Launch Site D (59-15N 49-24E)



I. Conclusions

Yur'ya is a confirmed ICBM launch complex.

II. Background

A. Photographic evidence.

June 1961 KEYHOLE photography provided the first observation of a deployed Soviet ICBM launch complex. This complex, northeast of Yur'ya, includes four road-served launch sites, each with two pads. The complex is defended by SA-2 SAM sites. The photography indicates an ICBM launch site signature similar to launch complex "C" at Tyura Tam. It also indicates that defensive measures (SAM sites) will be found at launch complexes, and it confirms the road transportability of the missile from a transfer point in the complex to the launch pad.

The Yur'va ICBM launch complex is located in a forested area 9 nm northeast of Yur'ya (Figure 1). It consists of four launch sites with two pads each and centrally located support facilities. Cloud cover prohibits complete observation. Four completed SA-2 SAM sites, about 15 nm from the center of the complex, have been identified. Cloud cover precludes identification of a SAM support facility. The complex is served by a rail spur branching from the main line between Kirov and Kotlas. The spur terminates at a rail-to-road transfer point in the general vicinity of the support facilities. The nearest reported airfields are located at Kirov, about 35 nm to the south. The ICBM facilities and interconnecting roads give the complex a crescent-shaped appearance with the open portion to the northeast. In general, the complex covers about 150 square miles. The quality of the photography and tree cover preclude confirmation of whether the entire complex is secured. Double fencing is prominent along three sides of one launch site and a single fence can be seen along three sides of another launch site.

From photographic evidence (June 1961), three launch sites could be either complete or in late stages of construction. Launch Site D was in an earlier stage of construction, but in December 1961 photography all sites appeared to be completed. Most of the support facilities also appear completed. The area to the north and southeast was thoroughly searched for additional launch sites or support facilities but none could be identified.

The four road-served launch sites, designated A, B, C, and D, are located along an improved road. Two are located to the north and two to the east of the centrally located support facilities. The distance between Launch Sites A, B, and C is 25,000 feet but Launch Site D is only 20,000 feet north of Site C. Each launch site covers an average of about 90 acres. While the individual launch sites are not identical in configuration, significant features and dimensions are consistent throughout and all four resemble the configuration observed at Launch Complex "C" at Tyura Tam. Each launch site has been modified slightly to meet existing terrain conditions or missile-handling procedures; however, each conforms to one of two distinct configurations. Each site contains two elongated pads, 1,000 feet apart. Their precise shape cannot be determined because of halation and ground scarring. The distance between pads at Launch Complex "C" at Tyura Tam, is 1,300 feet.

The long axes of the pads are parallel, and are oriented in a north-westerly direction between 335 and 340 degrees. In each launch site, wideradius turns are in evidence.

Of the four launch sites, Site A, which appears complete and double fenced (Figure 2), and Site B (Figure 3), which also appears complete and single fenced, more closely resemble Launch Complex "C" at Tyura Tam. In addition to the pads, Sites A and B contain several structures, one of which appears to be a probable missile-ready building. It appears to be of the drive-through type, is about 120 to 140 feet long, and is centrally located with respect to each launch pad. Vehicle stalls appear on the inside edge of one pad at Site A. Such stalls and a probable missile-ready building are also present at Tyura Tam Launch Complex C.

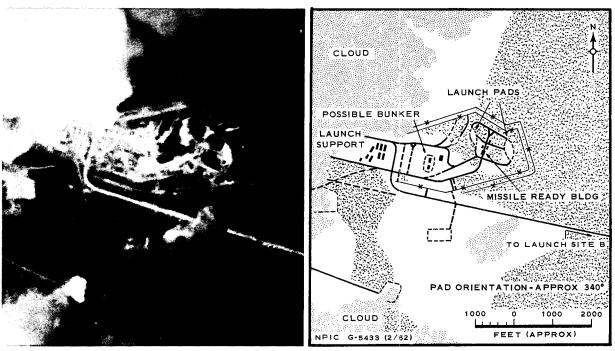


FIGURE 2. YUR'YA LAUNCH SITE A.

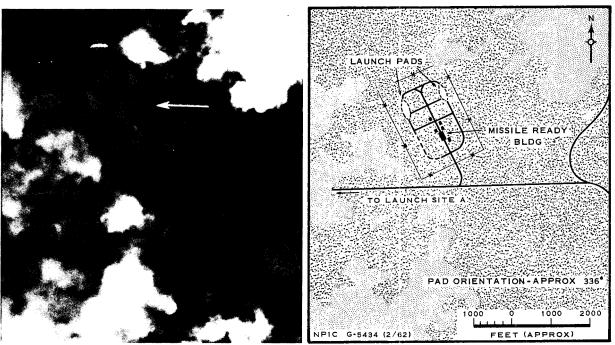


FIGURE 3. YUR'YA LAUNCH SITE B.

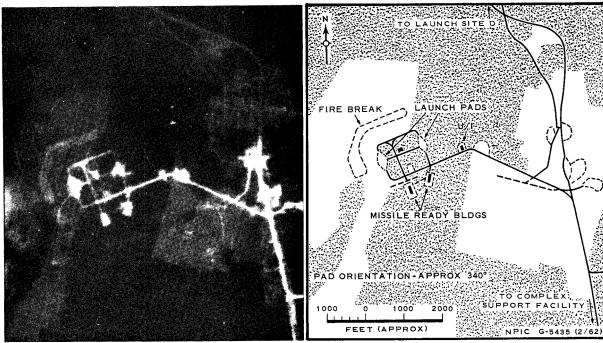


FIGURE 4. YUR'YA LAUNCH SITE C.

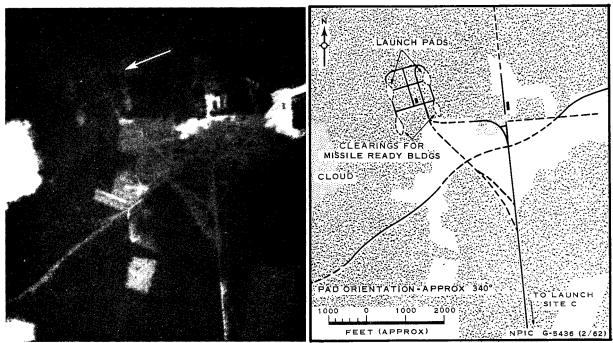


FIGURE 5. YUR'YA LAUNCH SITE D.

Launch Site A also contains a possible control bunker which may be the main control, with the other launch sites subordinate to it. Similar bunkers have not been found in the other sites; however, cloud shadow precludes detailed interpretation.

At least seven barracks-type structures which may be quarters for the missile crews adjoin the west side of Launch Site A. Such quarters have not been identified at the other launch sites.

Launch Sites C and D (Figures 4 and 5) constitute a modification of Sites A and B. The basic difference is that a clearing for a missile-ready building appears to be located about 1,200 feet to the rear of each pad. Both Sites C and D appear complete but the poor quality of photography precludes the identification of missile-ready buildings at Site D. No security measures are visible.

The support facility for the complex consists of eight separate areas, located along and at the terminus of the road and rail spur from Yur'ya (Figure 6). The rail spur terminates in three sidings; two long, widely spaced, parallel sidings and one short curved siding. The long sidings constitute the receiving and rail-to-road transfer point. These rail facilities are similar to the corresponding rail facilities at Tyura Tam Launch Complex C and indicate that missile-handling procedures are basically the same.

At a point on one of the long sidings, there appears to be a structure that could function as a missile-receiving building. The other long siding parallels a road network with wide-radius turns. Roads from the transfer point lead directly to the launch sites. Adjoining the transfer point on the south there appears to be a motor pool and an open storage area. The short curved siding leads to an unidentified storage area in a clearing containing what appears to be nine warehouse-type structures each about 200 feet long.

East of the rail sidings is a barracks area and an administration and housing area. The barracks area contains over 30 buildings, 20 of which are approximately 120 by 35 feet. If it is assumed that these are single-



FIGURE 6. YUR'YA SUPPORT FACILITY.

25X1

TH 0747-62KH I-Y-2

story units and if 150 square feet are allotted per man, these barracks could accommodate about 560 men. Buildings in the administration and housing area are difficult to identify. The general pattern of the area indicates that the east side contains administration buildings and the west, single-unit family-type housing.

Farther to the southwest and served by a rail siding is a fenced area which appears to contain two storage tanks, a building or bunker, and at least two other structures.



Sanitized Copy Approved for Release 2011/05/10 : CIA-RDP78T04757A000100010002-6	25X1
TH 0747-62KH I-Y-2	
REFERENCES	
MAPS OR CHARTS	
AMS. Series N501, Sheet 39-1, 2nd ed., Jun 55, Scale 1:250,000. (UNCLASSIFIED)	
AMS. Series N501, Sheet 39-4, 2nd ed., Jun 55, Scale 1:250,000. (UNCLASSIFIED)	
DOCUMENTS	
NPIC. NPIC/R-1/61, Jul 61. (TOP SECRET	25X1
NSA. RUM 585/50, 16 Jun 50. (TOP SECRET	25 X 1
NSA. 3/O/RUGM/R380-60, 9 Dec 60. (TOP SECRET	25X1
NSA. 3/O/RUM/R04-61, 7 Mar 60. (TOP SECRET	25X1
NSA. 3/O/RUY/T27-59, 16 Jan 59. (TOP SECRET	25X1
NSA. 3/O/RUO/R1-58, 26 Mar 61. (TOP SECRET	25X1
NSA. 3/O/RUGM/T33-61, 15 Aug 60. (TOP SECRET	25 X 1
NSA. 3/O/RUGM/R76-61, 18 May 61. (TOP SECRET	
NSA. 3/O/RUGM/R386-60, 9 Dec 60. (TOP SECRET	
	2 5X 1

- 10 -

25X1

25X1

AFIC. R-110-61, 25 Oct 61. (TOP SECRET

TH 0747-62KH

3 Pages 1 January 1962

NAME: Aluksne NO: II-A-1

LOCATION: Launch Site (57-25-10N 26-50-00E)

25X1

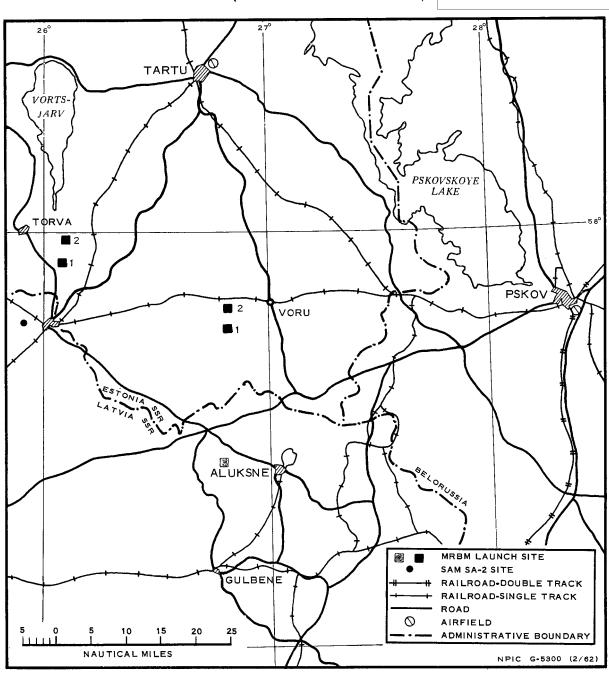


FIGURE 1. LOCATION OF THE ALUKSNE MRBM LAUNCH SITE.

Sanitized Copy Approved	for Release	2011/05/10 : CIA-RDP78T04757A	000100010002-6
TOP	SECRET		

25X1

TH 0747-62KH II-A-1

I. Conclusions

Aluksne is a confirmed MRBM launch site.

II. Background

A. Photographic Evidence

The Aluksne inline MRBM launch site, identified on KEYHOLE photography of August-September 1961, is located in a secure wooded area about 6.5 nm west of the town of Aluksne (Figure 1). The launch site contains four launch pads, each with associated missile-ready buildings, and an immediate support facility (Figure 2). A housing and support area is situated about 1,000 feet east of the launch site.

Due to the stage of construction, detailed measurements cannot be made; however, the general measurements equate to other MRBM sites of this type. The nearest road-rail transfer point, which probably serves the site, is located at Aluksne, 6.5 nm to the east.

REFERENCES

MAPS OR CHARTS

USATC. Series 200, Sheet 0153-18AL, 2nd ed., Nov 59, Scale 1:200,000. (SECRET)

DOCUMENTS

NPIC. PAR No 702-61, 9 Sep 61 (TOP SECRET

ACIC. DPAP No 1-5-2, Oct 61 (TOP SECRET

25**X**1

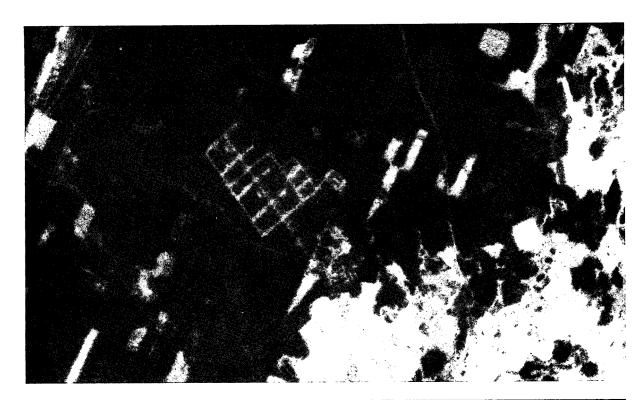
25X1

25X1

- 2 -

TOP SECRET

25X1



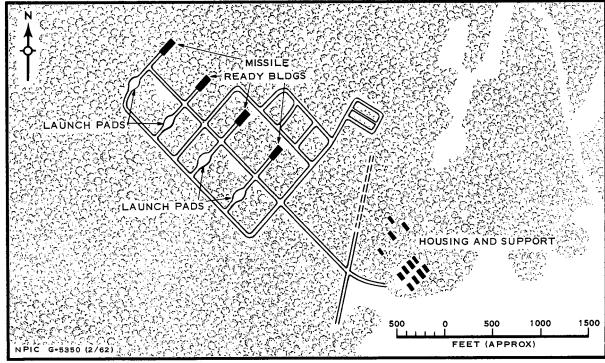


FIGURE 2. ALUKSNE LAUNCH SITE.

В

25X1

TH 0747-62KH 5 Pages 1 January 1962

NAME: Balta NO: II-B-1

LOCATION: Launch Site No 1 (48-02-30N 29-33-30E)

Launch Site No 2 (48-07-15N 29-34-45E)

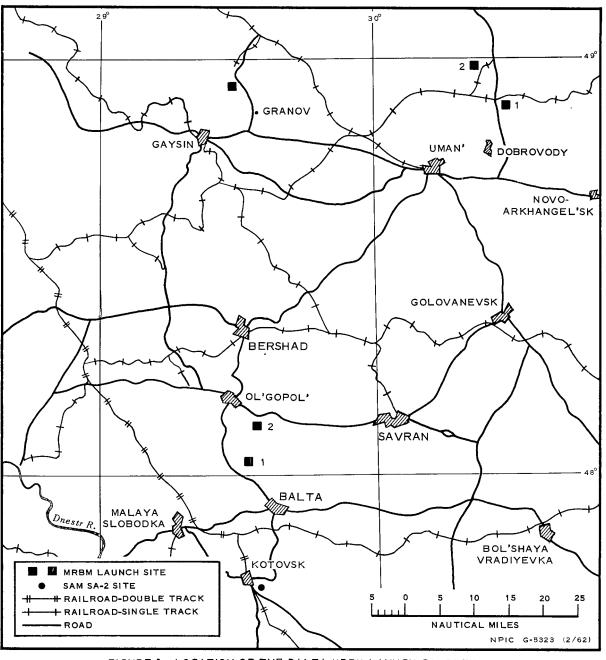


FIGURE 1. LOCATION OF THE BALTA MRBM LAUNCH COMPLEX.

-1-

I. Conclusions

Balta is a confirmed MRBM launch complex.

II. Background

A. Photographic Evidence

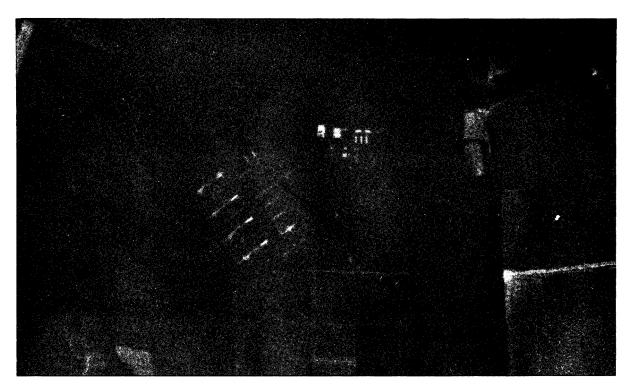
The Balta MRBM complex, identified on KEYHOLE photography of June and September 1961, is located in a heavy wooded area north of Balta (Figure 1). Launch Site No 1 located 12.5 nm north of Balta consists of four launch pad areas about 200 feet in diameter, arranged in a linear pattern. The launch pads are a minimum of 535 feet apart and are connected by a series of roads leading to the housing and support area (Figure 2). Construction at the site appears to be completed. Although the site is located within 10 nm of a railroad, there is no road leading from the site to the railroad.

Launch Site No 2 (Figure 3) is located 7 nm north of Balta. It has four ''inline'' pads with four probable associated missile-ready buildings, each of which is positioned at an angle to the access roads. Housing and support buildings are located adjacent to, northeast of, and about 750 feet to the southeast; of the launch area. Roads connect this site with Launch Site No 1 described above.

A SAM site is located about 16 nm to the south, and may be intended for air defense for the complex.

25X1

- 2 -



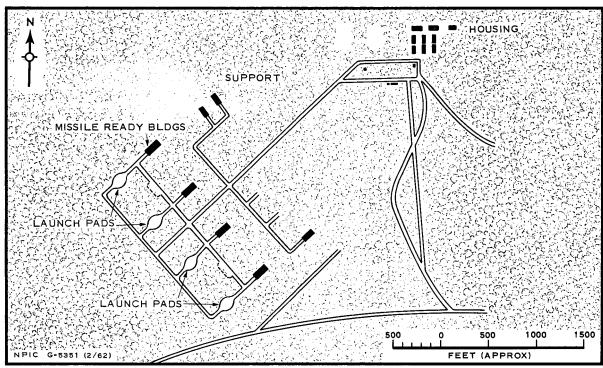


FIGURE 2. BALTA LAUNCH SITE NO 1.

TH 0747-62KH !I-B-1



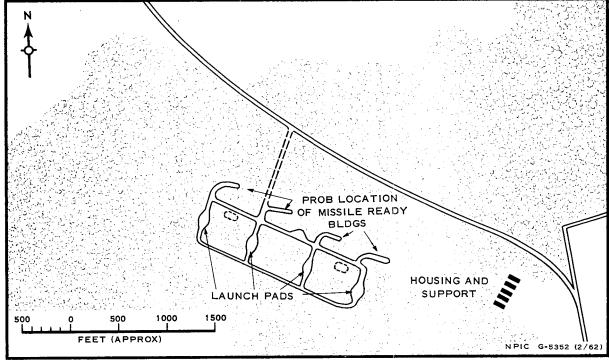


FIGURE 3. BALTA LAUNCH SITE NO 2.

Sanitized Copy Approved for Release 2011/05/10 : CIA-RDP787	. 5 1, 51, 1000 10002-0	2
	TH 0747-62KH II-B-1	
		25
REFERENCES		
MAPS OR CHARTS		
USATC. Series 200, Sheet 0233-23A, 1st ed., Oct 57, Scale 1:200	,000 (SECRET)	
DOCUMENTS		
NPIC. NPIC/R-3/61, Jul 61. (TOP SECRET		2
NPIC. OAK 9023, Pt. 3, 10 Sep 61. (TOP SECRET		2
NSA. 3/O/RUGM/R491-61, 15 Nov 61. (TOP SECRET		2

25X1

TH 0747-62KH 6 Pages 1 January 1962

NAME: Barano-Orenburgskoye

NO: II-B-2

LOCATION: Launch Site No 1 (44-15-50N 131-23-00E)

Launch Site No 2 (44-19-45N 131-30-10E)

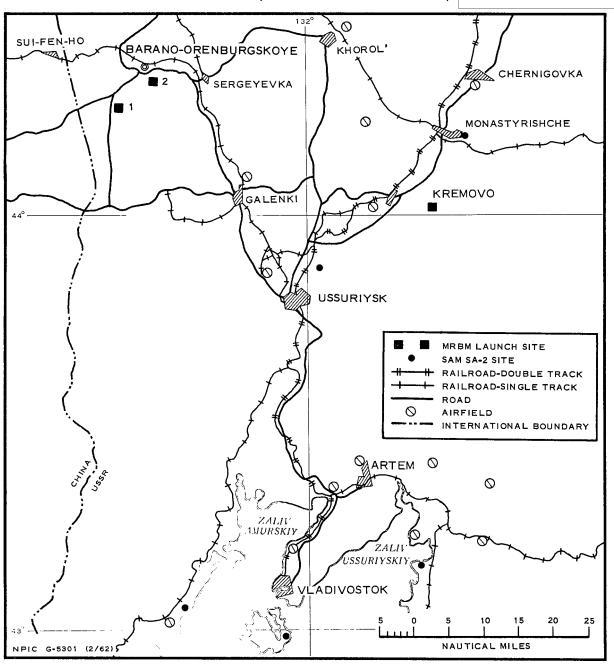


FIGURE 1. LOCATION OF THE BARANO-ORENBURGSKOYE MRBM LAUNCH COMPLEX.

- 1 -

TOP SECRET

I. Conclusions

Barano-Orenburgskoye is a confirmed MRBM launch complex.

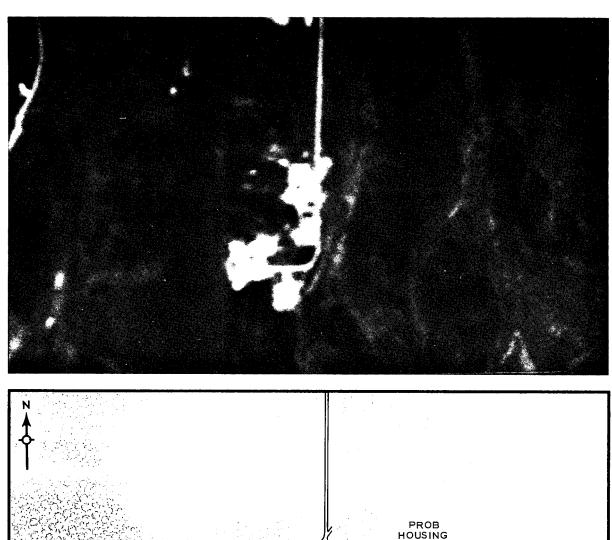
II. Background

A. Photographic Evidence

The Barano-Orenburgskoye MRBM complex was identified on KEY-HOLE photography of September 1961 (Figure 1).

Launch Site No 1 is located about 8 nm south-southwest of Barano-Orenburgskoye (Figure 2). The four launch pads are of irregular configuration. Each pad area is approximately 150 feet in diameter with the pad centers about 690 feet apart. A probable missile support area is located about 500 feet southeast of the southeastern-most launch pad. A probable housing area is located about 4,280 feet to the north. Halation and poor quality photography precludes a positive identification, as to the number and size of buildings in the support installation.

Launch Site No 2 is located 3 nm southeast of the town of Barano-Orenburgskoye, and about 5 nm northeast of launch Site No 2. The four pads are in an "inline" configuration with each pad area measuring about 150 feet in diameter (Figure 2). Spacing between each pad center is approximately 250 feet. A probable missile support area is located immediately adjacent to the launch area, and contains at least 13 buildings. The three largest buildings are approximately 130 by 65 feet. Another support facility is located about 2,100 feet west-northwest of the launch area and contains one probable drive-through building 225 by 100 feet, two buildings 85 by 45 feet, one building 120 by 45 feet, and six to eight other buildings of varying dimensions. A probable housing facility is located about 2,000 feet west of the support facility and contains about ten buildings of varying dimensions.



PROB HOUSING AND SUPPORT

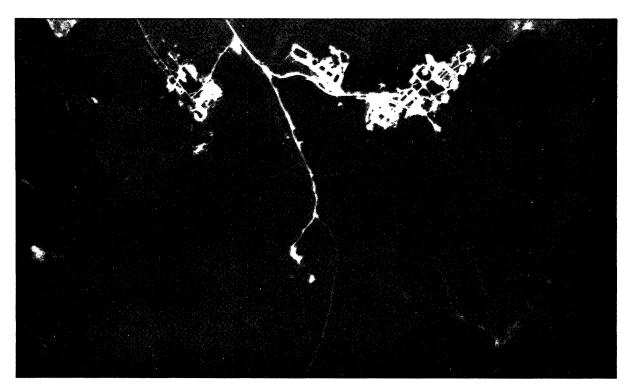
LAUNCH PAD AREA

500 0 500 1000 1500

NPIC G-5353 (2/62)

FIGURE 2. BARANO-ORENBURGSKOYE LAUNCH SITE NO 1.





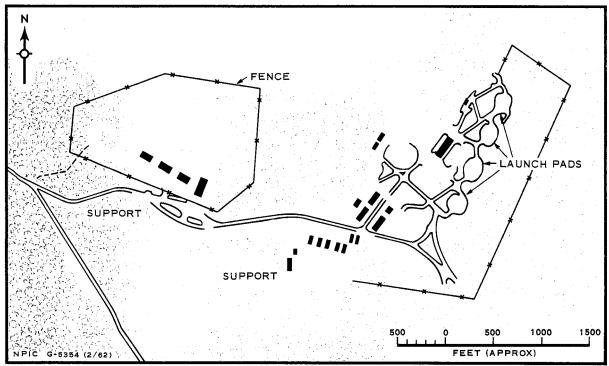


FIGURE 3. BARANO-ORENBURGSKOYE LAUNCH SITE NO 2.

Sanitized Copy Approved for Release 2011/05/10 : CIA-RDP78T04757A000100010002-6 TOP SECRET
TH 0747-62KH II-B-2
REFERENCES
REFERENCES
MAPS OR CHARTS
USATC. Series 200, Sheet 0282-21A, 2nd ed., Jul 59, Scale 1:200,000. (SECRET)
DOCUMENTS
AFIC. TB61-97, Dec 61. (TOP SECRET
NSA. 3/O/RUL/R27-59, 7 Aug 59. (TOP SECRET
NSA. 3/O/RUL/R30-59, 16 Dec 59 (Reissue). (TOP SECRET

NSA. 3/O/RUA-AW/T64-60, 26 Sep 60. (TOP SECRET

25X1

25X1

25X1

25X1

25X1

25X1

TH 0747-62KH 6 Pages 1 January 1962

NO: II-B-3 NAME: Belokorovichi

LOCATION: Launch Site No 1 (51-08-50N 28-00-30E)

Launch Site No 2 (51-10-00N 28-03-00E)

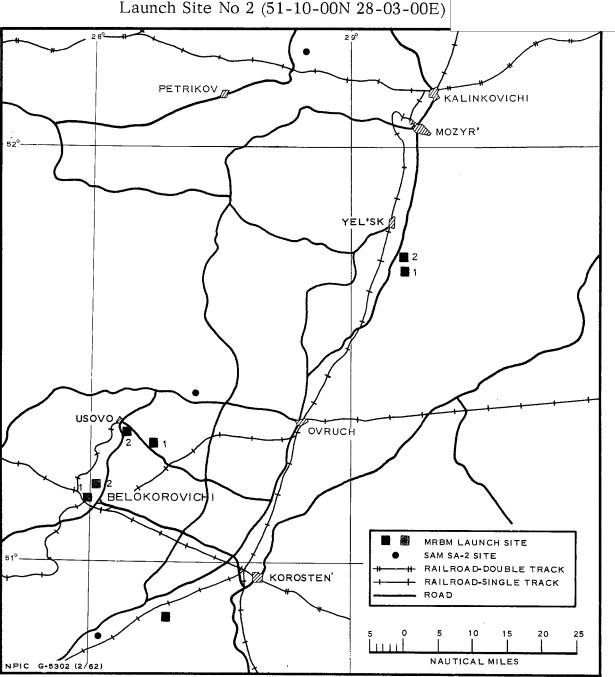


FIGURE 1. LOCATION OF THE BELOKOROVICHI MRBM LAUNCH COMPLEX.

TOP SECRET

I. Conclusions

Belokorovichi is a confirmed MRBM launch complex.

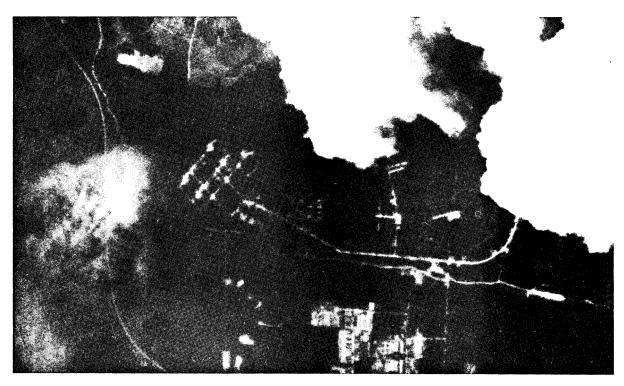
II. Background

A. Photographic Evidence

The Belokorovichi MRBM launch complex was identified on KEYHOLE photography of June 1961 (Figure 1).

Launch Site No 1 is located approximately 3 nm northwest of Belokorovichi and 33 nm west-southwest of Ovruch (Figure 2). Four launch pads form a rectangle measuring 900 by 535 feet and are interconnected by a series of roads. The pad areas are 200 feet across. In some respects, the site resembles Launch Area 2C at Kapustin Yar and appears completed. The road pattern and clearings in the woods immediately behind the launch pads indicate the probable presence of drive-through buildings. Eleven buildings 2,000 feet east of the launch pads probably serve as housing and support for personnel. One nm southeast of the launch pads is a large military barracks area. This area has been reported to have been rebuilt, and may possibly be associated with the nearby launch sites.

Launch Site No 2 is located about 2 nm northeast of the site described above (Figure 3). It appears identical in configuration and size, although the placement of the housing and support buildings is slightly different. This site, probably in the late stages of construction, has a rectangular configuration with four launch pads. The small support area located about 1,000 feet to the south of the launch site contains six buildings. Although there is a rail line about 3 nm to the south, the launch site is not rail served. Access to the launch site appears to be limited to a single access road which connects with the road to Belokorovichi.



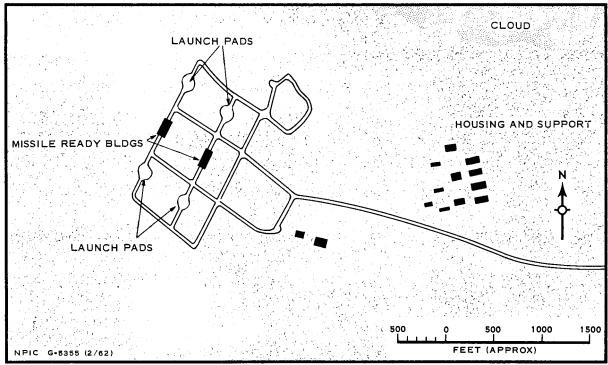
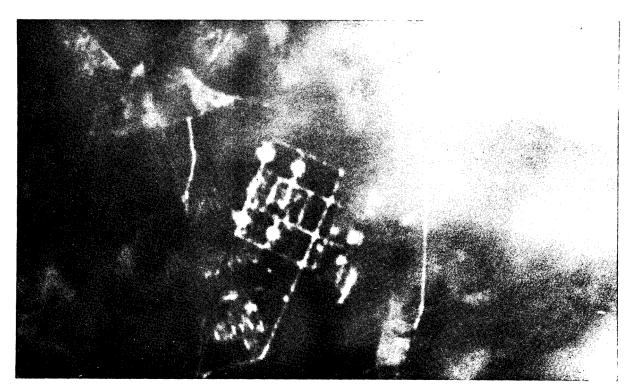


FIGURE 2. BELOKOROVICHI LAUNCH SITE NO 1.





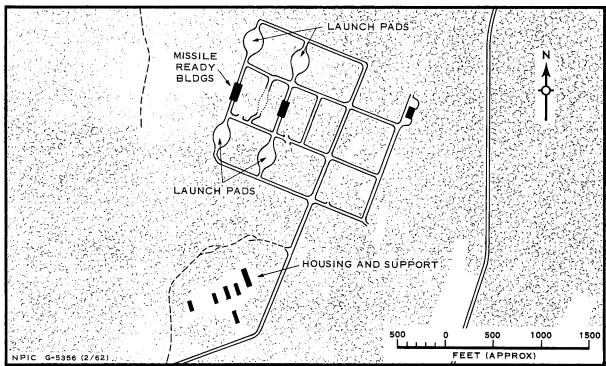


FIGURE 3. BELOKOROVICHI LAUNCH SITE NO 2.

Sanitized Copy Approved for Release 2011/05/10 : CIA-RDP78T04757A000100010002-6	25 X 1
TH 0747-62KH	
II-B-3	
REFERENCES	
MAPS OR CHARTS	
USATC. Series 200, Sheet 0233-7A, 1st ed., Oct 57, Scale 1:200,000. (SECRET)	
DOCUMENTS	
NPIC. NPIC/R-3/61, Jul 61. (TOP SECRET	25X1
NPIC. NPIC/R-5/61, Sep 61. (TOP SECRET	
NSA. 3/O/RUL/R30-59, 16 Dec 59. (TOP SECRET	25X1
NSA. 3/O/RUGM/R491-61, 15 Nov 61. (TOP SECRET	25X1
	25 X 1

ACIC. DPAR 16/17-61, Oct 61. (TOP SECRET

25X1

Sanitized Copy Approved for Release 2011/05/10 : CIA-RDP78T04757A000100010002-6

Sanitized Copy Approved for Release 2011/05/10 : CIA-RDP78T04757A000100010002-6

D

TH 0747-62KH 5 Pages 1 January 1962

NAME: Disna NO: II-D-1 25X1

LOCATION: Launch Site No 1 (55-35-00N 28-16-00E)

Launch Site No 2 (55-36-00N 28-25-40E)

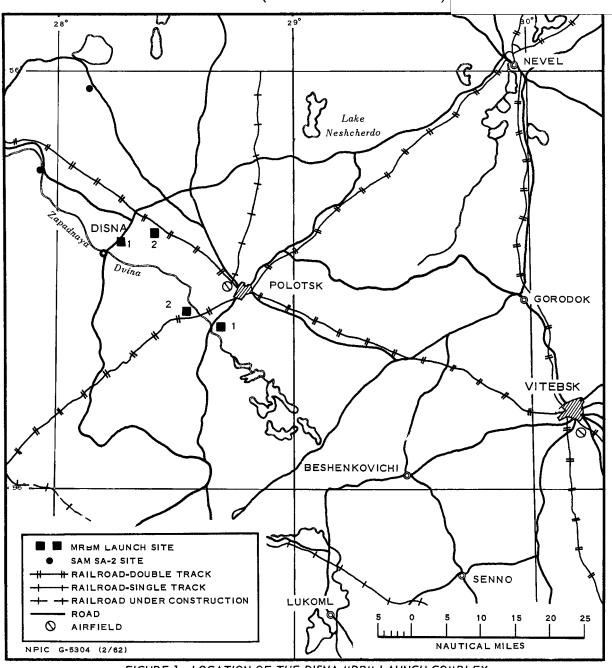


FIGURE 1. LOCATION OF THE DISNA MRBM LAUNCH COMPLEX.

- 1 -

I. Conclusions

Disna is a confirmed MRBM launch complex.

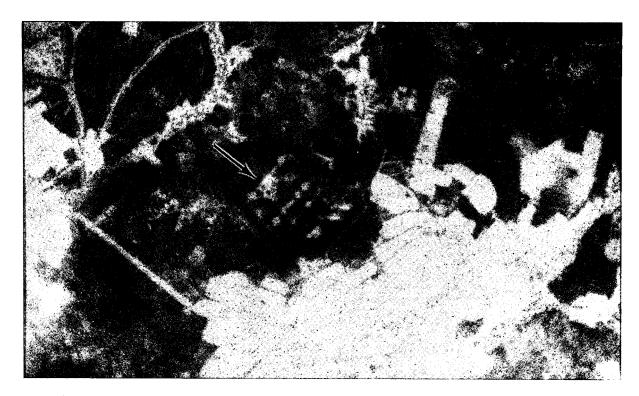
II. Background

A. Photographic Evidence

The Disna MRBM launch complex, identified on KEYHOLE photography of August-September and December 1961, consists of two launch sites each with four pads arranged in a rectangular configuration (Figure 1). Launch Site No 1 is located approximately 2 nm northeast of Disna. Launch Site No 2 is situated 6.5 nm east-northeast of Site No 1 (Figures 2 and 3). Both sites have an adjacent support facility and are road served. Another support area is associated with Launch Site No 2 and is located 0.5 nm to the northwest. This support area is similar in appearance to that serving the Torva complex.

25X1

- 2 -



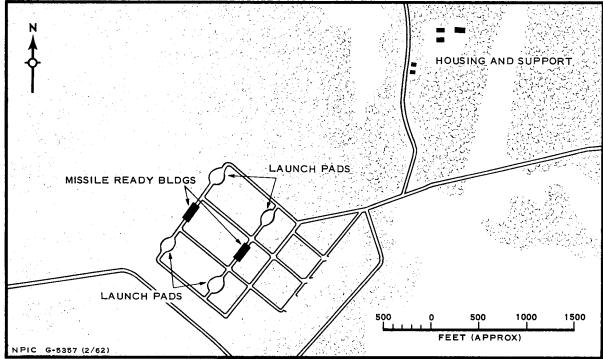


FIGURE 2. DISNA LAUNCH SITE NO 1.



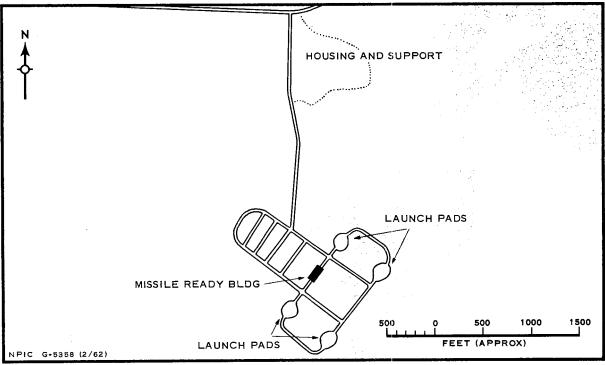


FIGURE 3. DISNA LAUNCH SITE NO 2.

Sanitized Copy Approved for Release 2011	05/10 : CIA-RDP78T04757A0	00100010002-6	25X1
TOP SECRET			23/1
		TH 0747-62KH	

REFERENCES

MAPS OR CHARTS

USATC. Series 200, Sheet 0168-5A, 1st ed., Nov 57, Scale 1:200,000. (SECRET)

DOCUMENTS

NSA. 3/O/RUJ/R25-61, 21 Aug 61. (TOP SECRET NSA. 3/O/RUJ/R26-61, 21 Aug 61. (TOP SECRET NSA. 3/O/RUGM/R76-60, 2 Mar 60. (TOP SECRET

25X1

II-D-1

- 5 -

25X1

TH 0747-62KH 5 Pages 1 January 1962

NAME: Dolina

NO: II-D-2

LOCATION: Launch Site No 1 (49-04-00N 24-04-30E)

Launch Site No 2 (49-06-00N 24-08-00E)

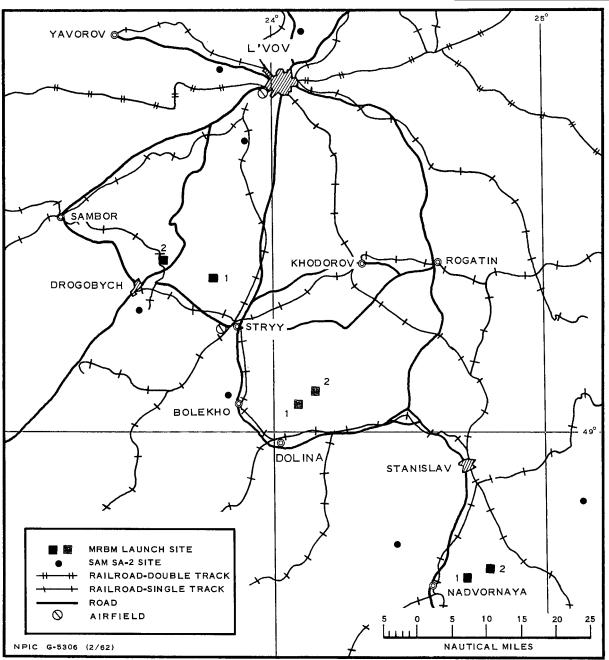


FIGURE 1: LOCATION OF THE DOLINA MRBM LAUNCH COMPLEX.

I. Conclusions

Dolina is a confirmed MRBM launch complex.

II. Background

A. Photographic Evidence

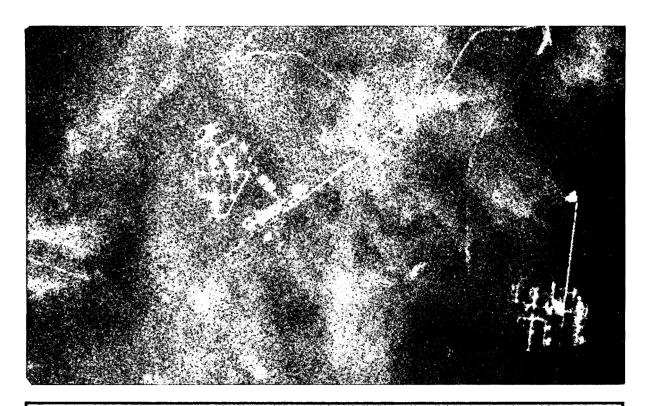
The Dolina MRBM launch complex was identified on KEYHOLE photography of June 1961 (Figure 1).

The two launch sites at Dolina have a different configuration from other confirmed MRBM sites observed to date. Differences include launchpad arrangement, orientation of pads with respect to support areas, and distances between launch pads and housing and support areas.

Launch Site No 1 is located in a large forested area 7 nm north-northeast of Dolina and 14 nm southeast of Stryy (Figure 2). The site has four pads and may contain drive-through and other buildings. The general appearance of the site places it in the last stages of construction. The resolution in the photography, however, precludes a precise determination of construction status.

Launch Site No 2 is located about 3.5 nm northeast of the site described above (Figure 3). This site, like Site No 1, may also be in the last stages of construction and has four launch pads. Although the area was partially obscured by haze and no buildings were discernible, the road pattern indicates the existence of one or two drive-through or other type of buildings. A housing and support facility is adjacent to the launch site on the south.

25X1



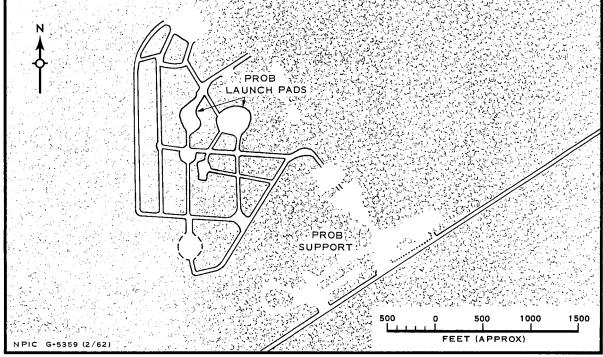


FIGURE 2. DOLINA LAUNCH SITE NO 1.



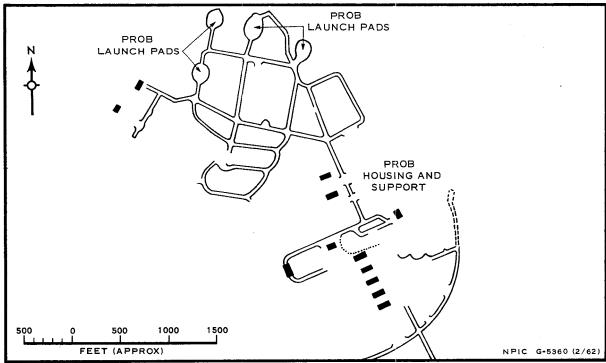


FIGURE 3. DOLINA LAUNCH SITE NO 2.

Sanitized Copy Approved for Release 2011/05/10 : CIA-RDP78	3T04757A000100010002-6	25 X 1
	TH 0747-62KH II-D-2	
		25X1
		
REFERENCES		
MAPS OR CHARTS		
USATC. Series 200, Sheet 0232-20A, 1st ed., Aug 57, Scale 1:20	0,000. (SECRET)	
DOCUMENTS		
NPIC. NPIC/R-3/61, Jul 61. (TOP SECRET		2
NPIC. NPIC/R-5/61. Sep 61. (TOP SECRET		
NPIC. NPIC/B-27/61, Sep 61. (TOP SECRET		
CIA. Report, 11 May 60. (SECRET)		
CIA. Report, 28 Apr 61. (SECRET)		

- 5 -

TOP SECRET

Air. AIIR 1472138, 1 Jun 61. (CONFIDENTIAL)

Sanitized Copy Approved for Release 2011/05/10 : CIA-RDP78T04757A000100010002-6 TOP SECRET |

TH 0747-62KH 5 Pages

25X1

25X1

1 January 1962

NAME: Drogobych

NO: II-D-3

LOCATION: Launch Site No 1 (49-22-38N 23-45-00E)

Launch Site No 2 (49-25-00N 23-34-30E)

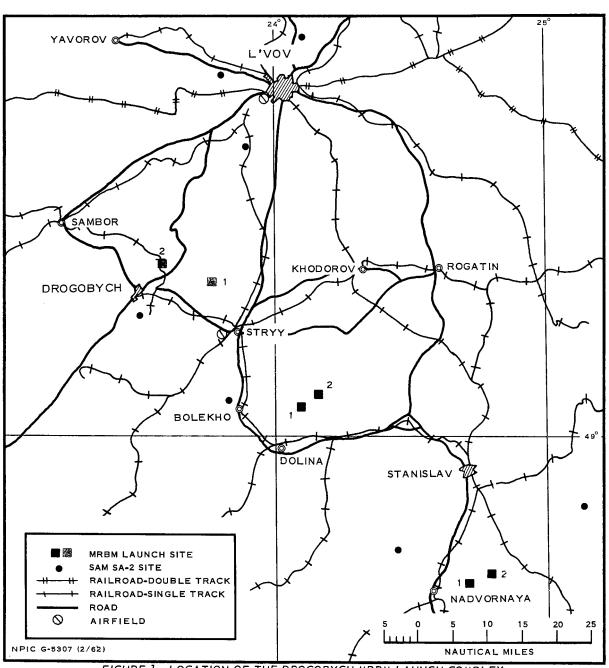


FIGURE 1. LOCATION OF THE DROGOBYCH MRBM LAUNCH COMPLEX.

I. Conclusions

Drogobych is a confirmed MRBM launch complex.

II. Background

A. Photographic Evidence

KEYHOLE photography of July 1961 confirms the existence of two MRBM launch sites to the northeast and east of Drogobych (Figure 1). Both sites appear to be completed and are located in wooded areas.

Launch Site No 1 is located 10 nm east of Drogobych near Medenitsa (Medinichi) (Figure 2). It has four launch pads forming a parallelogram, measuring approximately 950 by 500 feet. Two parallel roads service the pad areas. There is a drive-through building located on each of the parallel roads. A support area is located approximately one nm south of the launch site.

Launch Site No 2 is 4.5 nm northeast of Drogobych and 7.5 nm northwest of Launch Site No 1 (Figure 3). The four pads of the launch site form a parallelogram, measuring approximately 950 by 500 feet. Each of the two pairs of pads has a drive-through building and a network of wide-radius-turn roads. A small support area is immediately south of the launch site and contains at least five small buildings.

A SAM site which may be related to the defense of the Drogobych MRBM complex is located at 49-18N 23-30E, about 3 nm east of Borislav.

25X1

- 2 -



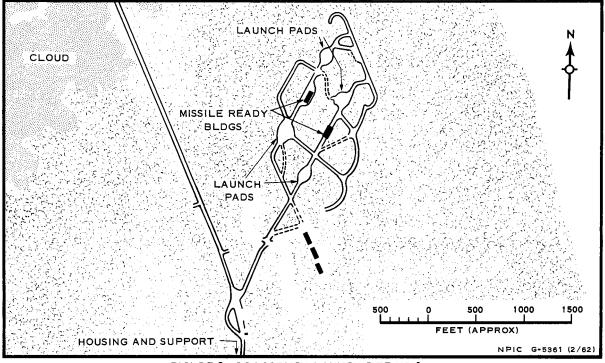
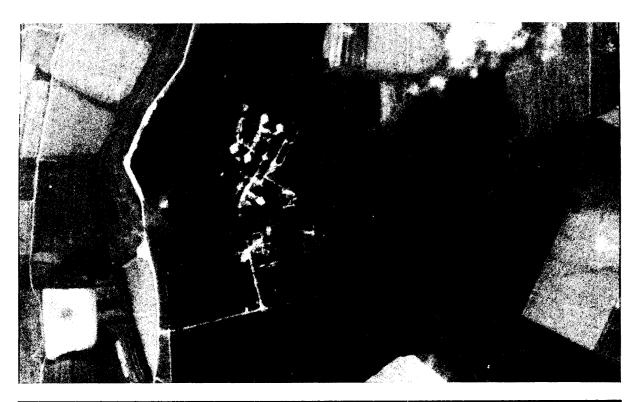


FIGURE 2. DROGOBYCH LAUNCH SITE NO 1.



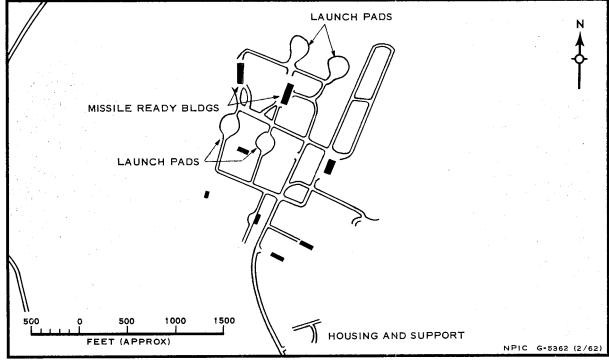


FIGURE 3. DROGOBYCH LAUNCH SITE NO 2.

Sanitized Copy Approved for Release 20 TOP SECRET)11/05/10 : CIA-RDP78 	T04757A0001000	10002-6 25X1
		TH 074 II-D-3	7-6 2 KH
			 25 X 1
	- • 		
	- •		
	•		
	EFERENCES		
MAPS OR CHARTS	EFERENCES		
		,000. (SECRET)	
MAPS OR CHARTS		,000. (SECRET)	
MAPS OR CHARTS USATC. Series 200, Sheet 0232-20A, 1s	t ed., Aug 57, Scale 1:200	9,000. (SECRET)	25X ²
MAPS OR CHARTS USATC. Series 200, Sheet 0232-20A, 1s DOCUMENTS	t ed., Aug 57, Scale 1:200	9,000. (SECRET)	25X ²

TH 0747-62KH 4 Pages 1 January 1962

NAME: Dunayevtsy ______NO: II-D-4

LOCATION: Launch Site (48-51-10N 26-43-00E)

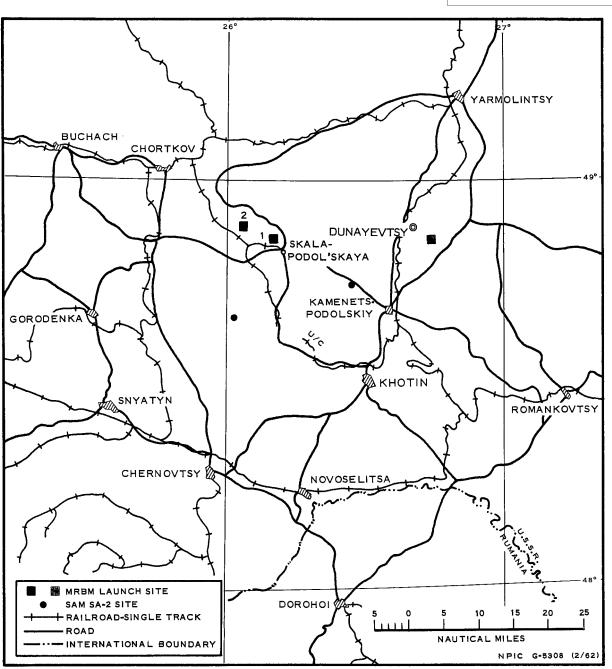


FIGURE 1. LOCATION OF THE DUNAYEVTSY MRBM LAUNCH SITE.

25X1

TH 0747-62KH II-D-4

I. Conclusions

Dunayevtsy is a confirmed MRBM launch site.

II. Background

A. Photographic Evidence

Only one launch site in a forest about 12 nm northeast of Kamenets-Podolskiy and 3 nm east of Dunayevtsy has been confirmed from KEYHOLE photography of June 1961 (Figure 1). It contains four launch pads under construction. There are at least seven buildings in the immediate area. Adjacent, on the northwest side, is a housing and support area containing at least 20 buildings (Figure 2).

- 2 -



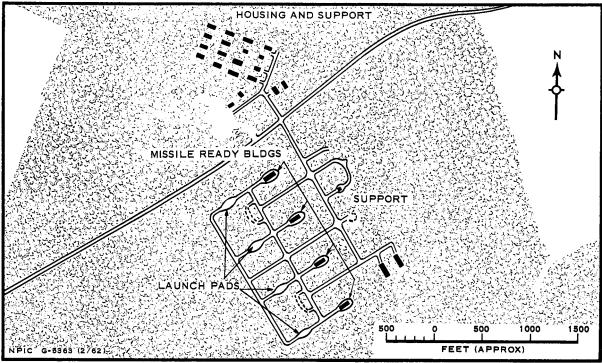


FIGURE 2. DUNAYEVTSY LAUNCH SITE.

	ized Copy Approved for Release 2011/05/10 : CIA-RDP78T04757A000100010002-6
TH 07- II-D-4	47-62KH
	REFERENCES
MAPS OI	
	REFERENCES R CHARTS TC. Series 200, Sheet 0233-16AL, 3rd ed., May 61, Scale 1:200,000. (SECRET)
	R CHARTS TC. Series 200, Sheet 0233-16AL, 3rd ed., May 61, Scale 1:200,000. (SECRET)
USA.	R CHARTS TC. Series 200, Sheet 0233-16AL, 3rd ed., May 61, Scale 1:200,000. (SECRET)
USA DOCUMI CIA.	R CHARTS TC. Series 200, Sheet 0233-16AL, 3rd ed., May 61, Scale 1:200,000. (SECRET) ENTS
USA DOCUMI CIA.	R CHARTS TC. Series 200, Sheet 0233-16AL, 3rd ed., May 61, Scale 1:200,000. (SECRET) ENTS Report, 16 Mar 61. (CONFIDENTIAL)
USA DOCUMI CIA. CIA.	R CHARTS TC. Series 200, Sheet 0233-16AL, 3rd ed., May 61, Scale 1:200,000. (SECRET) ENTS Report, 16 Mar 61. (CONFIDENTIAL) Report, 15 Dec 60. (CONFIDENTIAL)
USA DOCUMI CIA. CIA. CIA.	R CHARTS TC. Series 200, Sheet 0233-16AL, 3rd ed., May 61, Scale 1:200,000. (SECRET) ENTS Report, 16 Mar 61. (CONFIDENTIAL) Report, 15 Dec 60. (CONFIDENTIAL) Report, 18 Apr 61. (CONFIDENTIAL)

r

Sanitized Copy Approved for Release 2011/05/10 : CIA-RDP78T04757A000100010002-6

G

25X1

TH 0747-62KH 4 Pages 1 January 1962

NAME: Godykha

NO: II-G-1

LOCATION: Launch Site (50-10-00N 28-16-10E)

MRBM LAUNCH SITE SAM SA-2 SITE H-RAILROAD-DOUBLE TRACK KOROSTYSHEV ₩ RAILROAD-SINGLE TRACK ZHITOMIR ROAD GODYKHA LYUBAR BERDICHEV OSTROPOL KAZATIN MEDZHIBOZH VAKHNOVKA LIPOVET VINNITSA ZHMERINKA 10 20 25 NAUTICAL MILES NPIC G-5309 (2/62)

FIGURE 1. LOCATION OF THE GODYKHA LAUNCH SITE.

I. Conclusions

Godykha is a confirmed MRBM site.

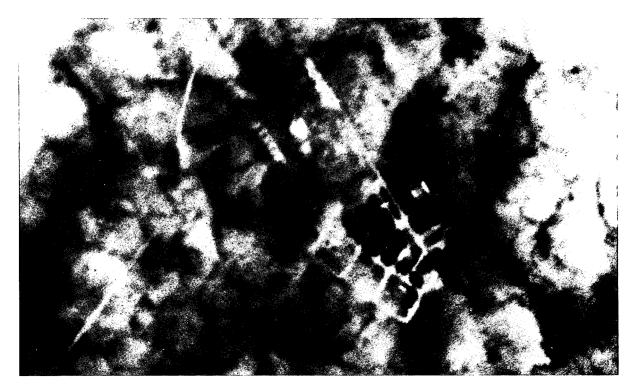
II. Background

A. Photographic Evidence

A single MRBM site was identified on KEYHOLE photography of August-September 1961 about 15 nm southwest of Zhitomir and 2 nm southeast of Godykha in the west-central Ukraine (Figure 1). Discernible features of the installation are typical of a four-pad "inline" MRBM site; however, the launch pads are not clearly visible, because 90 per cent of the area is cloud or haze covered. Included in the area are probable control buildings, a probable barracks area, drive-through buildings, and several unidentified buildings (Figure 2).

25X1

- 2 -



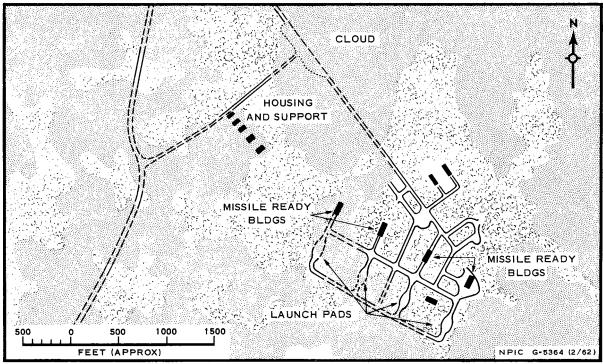


FIGURE 2. GODYKHA LAUNCH SITE.

Sanitized Copy Approved for Release 2011/05/10 : CIA-RDP78T04757A000100010002-6 TOP SECRET	25 X 1
TH 0747-62KH II-G-1	
REFERENCES	
MAPS OR CHARTS	
USATC. Series 200, Sheet 0233-12A, 1st ed., Aug 57, Scale 1:200,000. (SECRET)	
DOCUMENTS	
	25 X 1

CIA. Report, 28 Oct 60. (SECRET)

TH 0747-62KH 6 Pages 1 January 1962

NAME: Gomel' NO: II-G-2 25X1

Launch Site No 1 (52-18-45N 30-42-15E) LOCATION:

Launch Site No 2 (52-24-45N 30-39-45E)

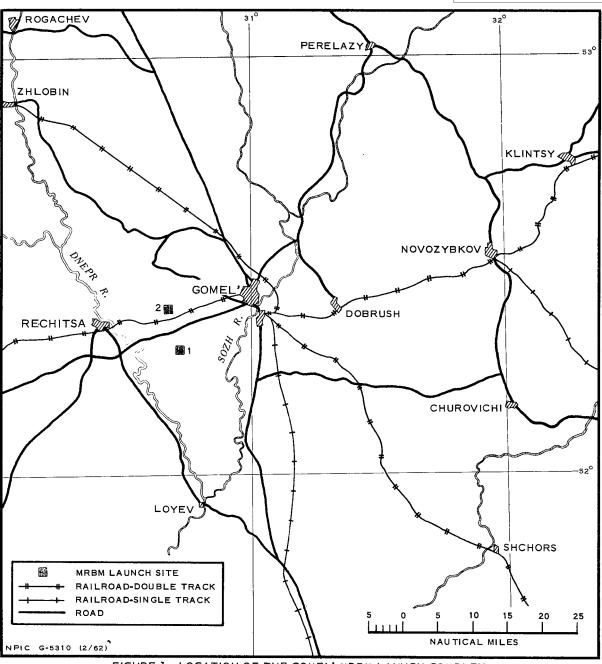


FIGURE 1. LOCATION OF THE GOMEL' MRBM LAUNCH COMPLEX.

TOP SECRET

Sanitized Copy Approved for Release 2011/05/10 : CIA-RD)P78T04757A000100010002-6
---	---------------------------

TOP SECRET

25X1

TH 0747-62KH II-G-2

I. Conclusions

Gomel' is a confirmed MRBM launch complex.

II. Background

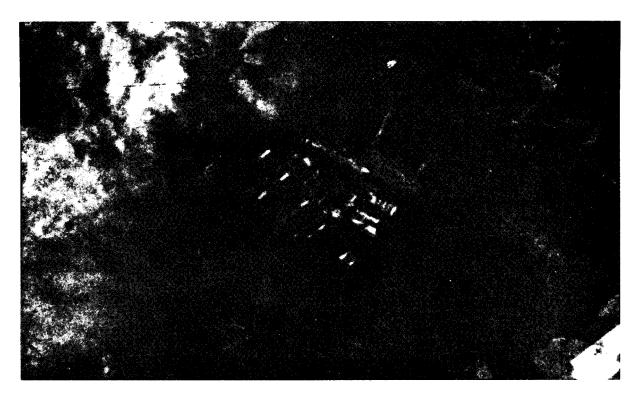
A. Photographic Evidence

The Gomel' MRBM launch complex, identified on KEYHOLE photography of June 1961, is located in a wooded area approximately 13 nm west of Gomel' (Figure 1). Site No 1 is located about 13 nm southwest of Gomel', and Site No 2 is located 13 nm west of Gomel' (Figures 2 and 3).

Each launch site is served by an access road connecting with the Rechitsa-Gomel' highway. There is no evidence of a rail-to-road off-loading facility in the vicinity of these sites.

There is no evidence of fencing around either site, and SAM sites have been located in the vicinity.

25X1



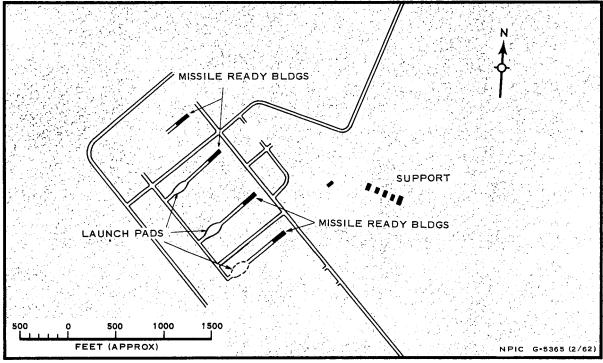
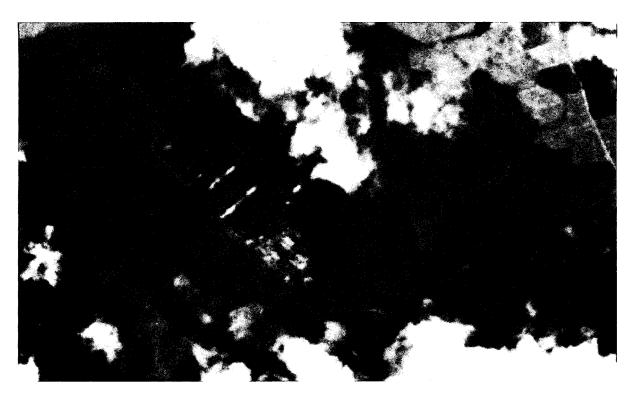


FIGURE 2. GOMEL' LAUNCH SITE NO 1.





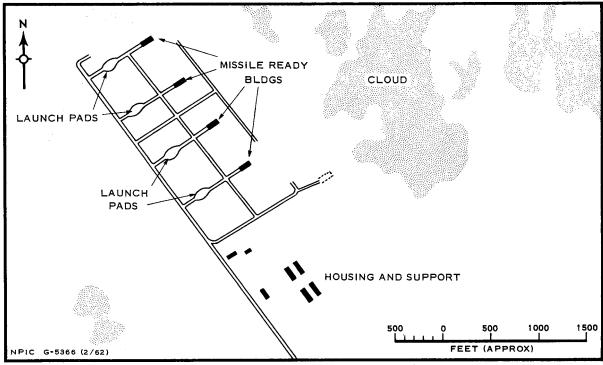


FIGURE 3. GOMEL' LAUNCH SITE NO 2.

Sanitized Copy Approved for Release 2011/05/10 : CIA-RDP78T04757A000100010002-6	25X1
TH 0747-62KH II-G-2	
REFERENCES	
MAPS OR CHARTS	
USATC. Series 200, Sheet 0167-21A, 1st ed., Dec 58, Scale 1:200,000. (SECRET)	
DOCUMENTS	
NPIC. NPIC/R-3/61, Jul 61. (TOP SECRET	25X1
NPIC. NPIC/R-5/61, Sep 61. (TOP SECRET	
NPIC. NPIC/B-27/61, Sep 61. (TOP SECRET	25 X 1
NSA. 3/O/RUL/R30-59, 16 Dec 59. (TOP SECRET	25 X 1

NSA. 3/O/RUL/R30-59, 16 Dec 59. (TOP SECRET

NSA. 3/O/RUGM/R491-61, 15 Nov 61. (TOP SECRET

25X1

TH 0747-62KH 4 Pages 1 January 1962

NAME: Granov

NO: II-G-3

LOCATION:

Launch Site (48-56-20N 29-30-15E)

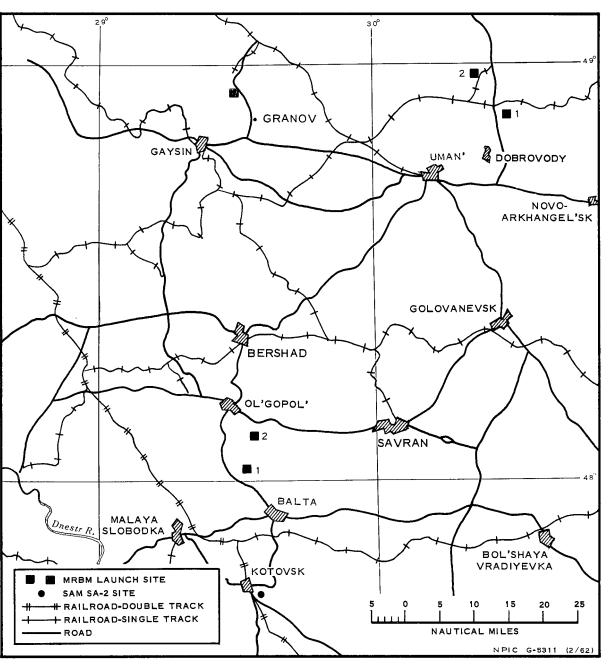


FIGURE 1. LOCATION OF THE GRANOV MRBM LAUNCH SITE.

TOP SECRET

I. Conclusions

Granov is a confirmed MRBM launch site.

II. Background

A. Photographic Evidence

KEYHOLE photography of June, August, and September 1961 has confirmed a MRBM launch site under construction 5 nm northwest of Granov (Figure 1). The site is located in a heavily wooded area.

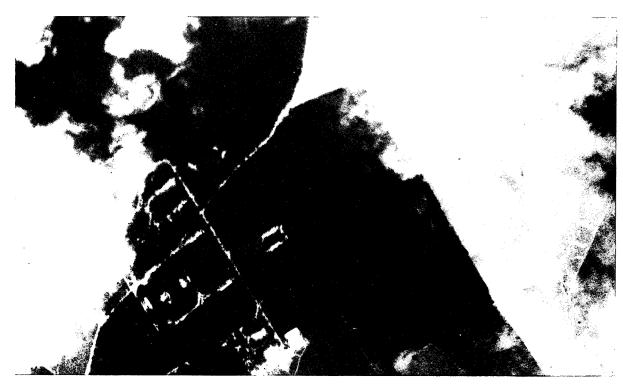
Although it is not possible to identify all of the launch pads, the road pattern and general configuration of the site indicate that the pads will be arranged in a linear pattern (Figure 2). Three possible drive-through buildings appear on roads leading to the pads. Scarring on other roads indicate that similar buildings may be under construction there. A small housing and support area containing about nine buildings is located southeast of the launch site.

The launch site is served by two roads, one from Gorodok (one nm to the northeast) and one from Gaysin (9 nm to the southwest). The road from Gaysin branches directly into the launch area and the housing and support area. The nearest rail line is located northwest of Gorodok, and Ivangorod airfield is reported to be located 13 nm southeast of the site.

There are no visible signs of security fencing in the area nor do any SAM sites appear to be associated directly with this site installation.

25X1

- 2 -



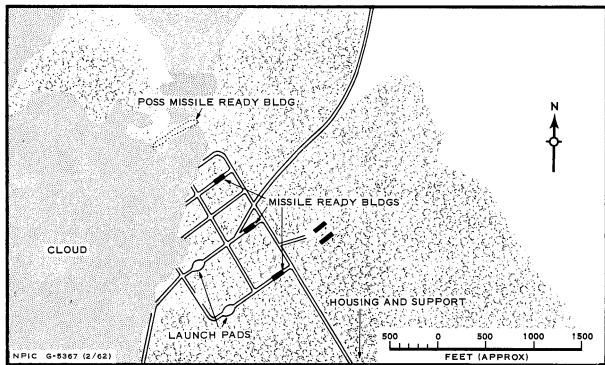


FIGURE 2. GRANOV LAUNCH SITE.

- 3 -

Sanitized Copy Approved for Release 2011/05/10 : CIA-RDP78T04757A000100010002-6	3 25 X 1
TH 0747-62KH II-G-3	•
REFERENCES	
MAPS OR CHARTS USATC. Series 200, Sheet 0233-18A, 2nd ed., Jun 58, Scale 1:200,000. (SECRET)	
DOCUMENTS ACIC. DPAR No 18-61, Oct 61. (TOP SECRET	25X1

TH 0747-62KH 4 Pages 1 January 1962 25X1

25X1

NAME: Gresk · NO: II-G-4

LOCATION: Launch Site No 1 (53-14-30N 27-42-50E)

Launch Site No 2 (53-16-20N 27-41-00E)

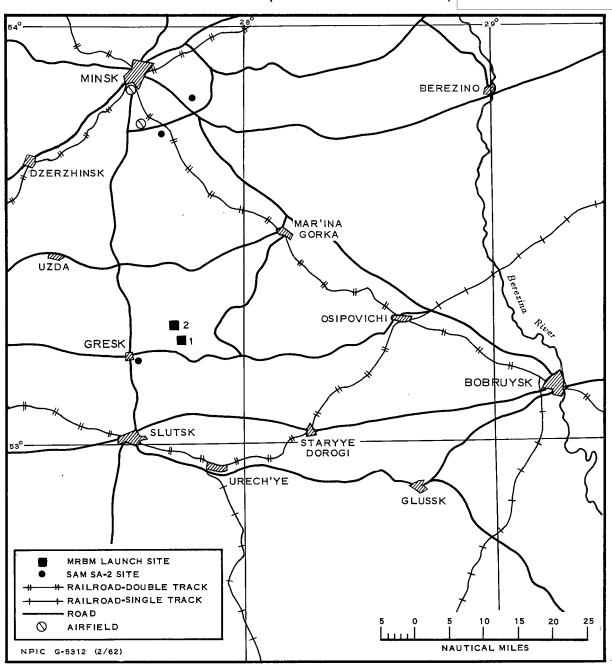


FIGURE 1. LOCATION OF THE GRESK MRBM LAUNCH COMPLEX.

- 1 -

Sanitized Copy Approved for Release 2011/05/10 : CIA-RDP78T04757A000100010002-6 TOP SECRET TH 0747-62KH	25 X 1
II-G-4 I. Conclusions	
Gresk is a confirmed MRBM launch complex.	
II. Background	
A. Photographic Evidence	
The Gresk launch complex, identified on KEYHOLE photography of August-September and December 1961 (Figure 1), contains two rectangular shaped launch sites spaced 3 nm apart, each with four launch pads. Launch Site No 1 is located approximately 10 nm northeast of Gresk. Launch Site No 2 is located 3 nm north-northwest of Launch Site No 1. Both launch sites are road served and have an adjacent support area (Figures 2 and 3). The launch sites are partially obscured by haze, precluding detailed interpretation of photography.	• O.S.V.(
	25X1
REFERENCES	
MAPS OR CHARTS	

USATC. Series 200, Sheet 0168-19A, 1st ed., Nov 57, Scale 1:200,000. (SECRET)

DOCUMENTS

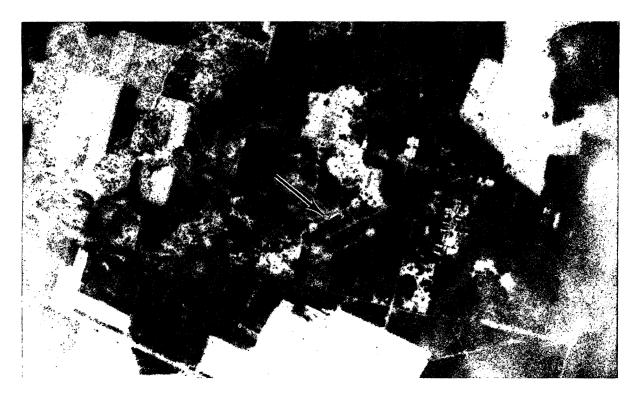
NPIC. OAK 9023, Sep 61. (TOP SECRET

NPIC. OAK 9029, 22 Dec 61. (TOP SECRET

- 2 -

TOP SECRET

25X1



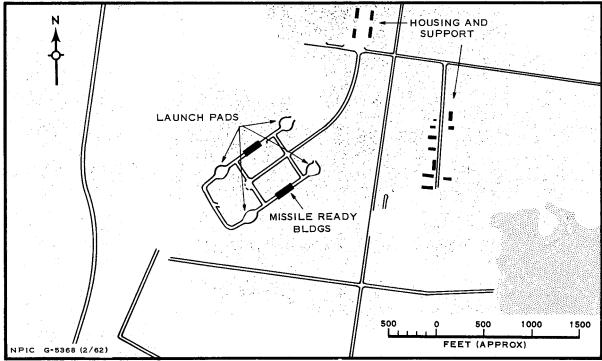


FIGURE 2. GRESK LAUNCH SITE NO 1.



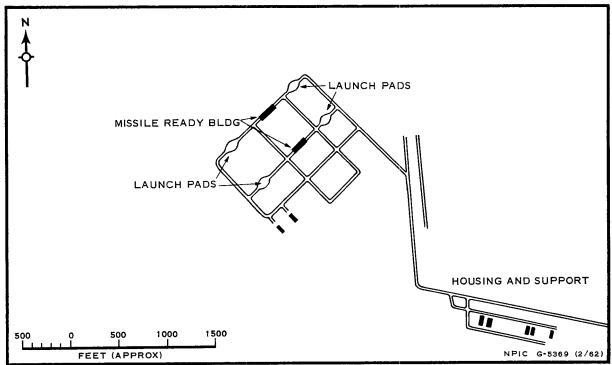


FIGURE 3. GRESK LAUNCH SITE NO 2.

25X1

TH 0747-62KH 5 Pages 1 January 1962

NAME: Gusev NO: II-G-5 25X1

LOCATION: Launch Site No 1 (54-41-00N 22-04-50E)

Launch Site No 2 (54-43-30N 22-04-50E)

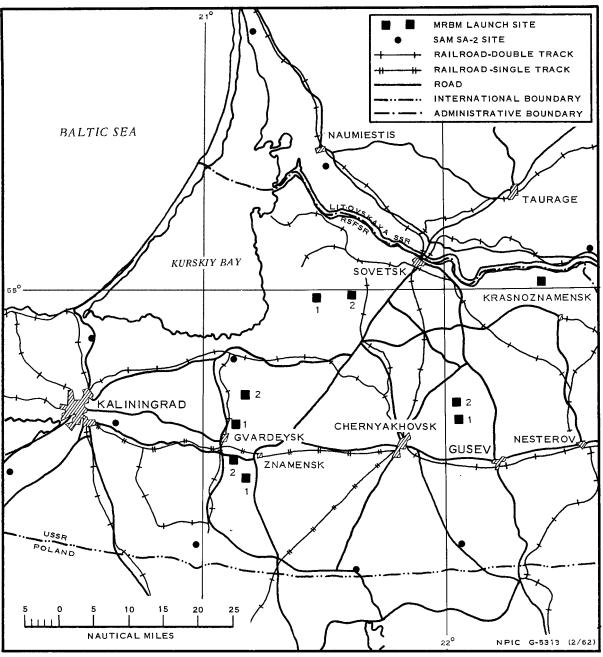
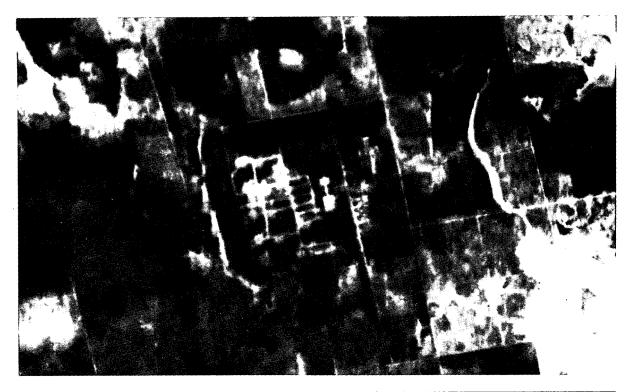


FIGURE 1. LOCATION OF THE GUSEV MRBM LAUNCH COMPLEX.

Sanitized Copy Approved for Release 2011/05/10 : CIA-RDP78T04757A000100010002-6 TOP SECRET	25X1
TH 0747-62KH II-G-5	•
I. Conclusions	
Gusev is a <u>confirmed</u> MRBM launch complex.	
II. Background	
A. Photographic Evidence.	
The Gusev MRBM launch complex was identified on KEYHOLE photography of June 1961, (Figure 1).	
Launch Site No 1 is located approximately 8 nm northwest of Gusev (Figure 2). This site has four launch pads aligned in a north-south direction	
with housing and support areas to the east of the launch area. The overall configuration is similar to other confirmed MRBM launch sites. No buildings were discernible in the immediate launch area; possibly due to	
the early stage of construction at the time of photography. Launch Site No 2 is located 3 nm north of Site No 1 (Figure 3). It	
appears to be either completed or in a very late stage of construction. The launch site consists of four pads with an orientation of	25X1
One of four parallel roads serves each pad. Drive-through buildings at this site measure about Housing and support facilities	25X1
are located immediately northeast of the launch facilities and include at least ten buildings.	
	25X1



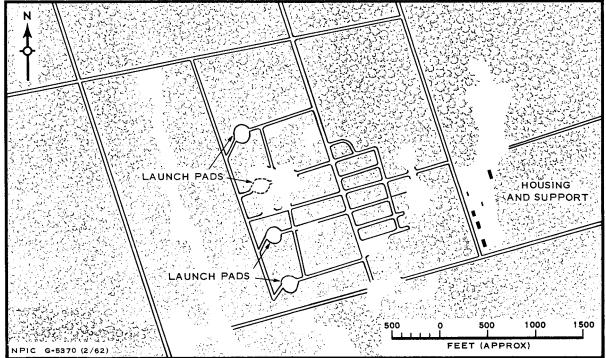


FIGURE 2. GUSEV LAUNCH SITE NO 1.



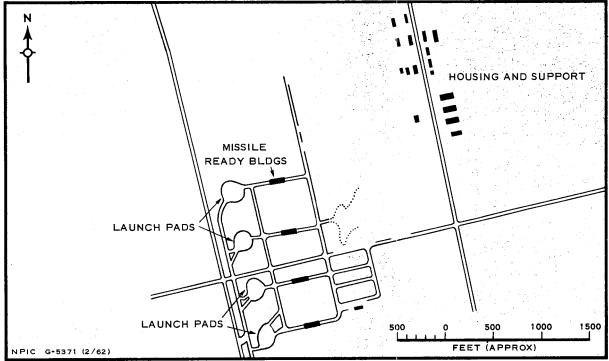


FIGURE 3. GUSEV LAUNCH SITE NO 2.

REFERENCES MAPS OR CHARTS USATC. Series 200, Sheet 0168-6A (Prov.), 1st ed. (Prov.), Apr 57, Scale 1:200,000. (SECRET) DOCUMENTS NPIC. NPIC/R-3/61, Jul 61. (TOP SECRET NPIC. NPIC/R-5/61, Sep 61. (TOP SECRET NSA. 3/O/RUJ/R5-61, 8 Feb 61. (TOP SECRET	Sai	nitized Copy Approved for Release 2011/05/10 : CIA-RDP78T04757A000100010002-6 TOP SECRET TH 0747-62KH II-G-5	2
MAPS OR CHARTS USATC. Series 200, Sheet 0168-6A (Prov.), 1st ed. (Prov.), Apr 57, Scale 1:200,000. (SECRET) DOCUMENTS NPIC. NPIC/R-3/61, Jul 61. (TOP SECRET NPIC. NPIC/R-5/61, Sep 61. (TOP SECRET NSA. 3/O/RUJ/R5-61, 8 Feb 61. (TOP SECRET			2
MAPS OR CHARTS USATC. Series 200, Sheet 0168-6A (Prov.), 1st ed. (Prov.), Apr 57, Scale 1:200,000. (SECRET) DOCUMENTS NPIC. NPIC/R-3/61, Jul 61. (TOP SECRET NPIC. NPIC/R-5/61, Sep 61. (TOP SECRET NSA. 3/O/RUJ/R5-61, 8 Feb 61. (TOP SECRET			
MAPS OR CHARTS USATC. Series 200, Sheet 0168-6A (Prov.), 1st ed. (Prov.), Apr 57, Scale 1:200,000. (SECRET) DOCUMENTS NPIC. NPIC/R-3/61, Jul 61. (TOP SECRET NPIC. NPIC/R-5/61, Sep 61. (TOP SECRET NSA. 3/O/RUJ/R5-61, 8 Feb 61. (TOP SECRET			
MAPS OR CHARTS USATC. Series 200, Sheet 0168-6A (Prov.), 1st ed. (Prov.), Apr 57, Scale 1:200,000. (SECRET) DOCUMENTS NPIC. NPIC/R-3/61, Jul 61. (TOP SECRET NPIC. NPIC/R-5/61, Sep 61. (TOP SECRET NSA. 3/O/RUJ/R5-61, 8 Feb 61. (TOP SECRET			
MAPS OR CHARTS USATC. Series 200, Sheet 0168-6A (Prov.), 1st ed. (Prov.), Apr 57, Scale 1:200,000. (SECRET) DOCUMENTS NPIC. NPIC/R-3/61, Jul 61. (TOP SECRET NPIC. NPIC/R-5/61, Sep 61. (TOP SECRET NSA. 3/O/RUJ/R5-61, 8 Feb 61. (TOP SECRET			
MAPS OR CHARTS USATC. Series 200, Sheet 0168-6A (Prov.), 1st ed. (Prov.), Apr 57, Scale 1:200,000. (SECRET) DOCUMENTS NPIC. NPIC/R-3/61, Jul 61. (TOP SECRET NPIC. NPIC/R-5/61, Sep 61. (TOP SECRET NSA. 3/O/RUJ/R5-61, 8 Feb 61. (TOP SECRET			
MAPS OR CHARTS USATC. Series 200, Sheet 0168-6A (Prov.), 1st ed. (Prov.), Apr 57, Scale 1:200,000. (SECRET) DOCUMENTS NPIC. NPIC/R-3/61, Jul 61. (TOP SECRET NPIC. NPIC/R-5/61, Sep 61. (TOP SECRET NSA. 3/O/RUJ/R5-61, 8 Feb 61. (TOP SECRET			
MAPS OR CHARTS USATC. Series 200, Sheet 0168-6A (Prov.), 1st ed. (Prov.), Apr 57, Scale 1:200,000. (SECRET) DOCUMENTS NPIC. NPIC/R-3/61, Jul 61. (TOP SECRET NPIC. NPIC/R-5/61, Sep 61. (TOP SECRET NSA. 3/O/RUJ/R5-61, 8 Feb 61. (TOP SECRET			
MAPS OR CHARTS USATC. Series 200, Sheet 0168-6A (Prov.), 1st ed. (Prov.), Apr 57, Scale 1:200,000. (SECRET) DOCUMENTS NPIC. NPIC/R-3/61, Jul 61. (TOP SECRET NPIC. NPIC/R-5/61, Sep 61. (TOP SECRET NSA. 3/O/RUJ/R5-61, 8 Feb 61. (TOP SECRET			
MAPS OR CHARTS USATC. Series 200, Sheet 0168-6A (Prov.), 1st ed. (Prov.), Apr 57, Scale 1:200,000. (SECRET) DOCUMENTS NPIC. NPIC/R-3/61, Jul 61. (TOP SECRET NPIC. NPIC/R-5/61, Sep 61. (TOP SECRET NSA. 3/O/RUJ/R5-61, 8 Feb 61. (TOP SECRET			
MAPS OR CHARTS USATC. Series 200, Sheet 0168-6A (Prov.), 1st ed. (Prov.), Apr 57, Scale 1:200,000. (SECRET) DOCUMENTS NPIC. NPIC/R-3/61, Jul 61. (TOP SECRET NPIC. NPIC/R-5/61, Sep 61. (TOP SECRET NSA. 3/O/RUJ/R5-61, 8 Feb 61. (TOP SECRET			
MAPS OR CHARTS USATC. Series 200, Sheet 0168-6A (Prov.), 1st ed. (Prov.), Apr 57, Scale 1:200,000. (SECRET) DOCUMENTS NPIC. NPIC/R-3/61, Jul 61. (TOP SECRET NPIC. NPIC/R-5/61, Sep 61. (TOP SECRET NSA. 3/O/RUJ/R5-61, 8 Feb 61. (TOP SECRET		•	
MAPS OR CHARTS USATC. Series 200, Sheet 0168-6A (Prov.), 1st ed. (Prov.), Apr 57, Scale 1:200,000. (SECRET) DOCUMENTS NPIC. NPIC/R-3/61, Jul 61. (TOP SECRET NPIC. NPIC/R-5/61, Sep 61. (TOP SECRET NSA. 3/O/RUJ/R5-61, 8 Feb 61. (TOP SECRET			
USATC. Series 200, Sheet 0168-6A (Prov.), 1st ed. (Prov.), Apr 57, Scale 1:200,000. (SECRET) DOCUMENTS NPIC. NPIC/R-3/61, Jul 61. (TOP SECRET NPIC. NPIC/R-5/61, Sep 61. (TOP SECRET NSA. 3/O/RUJ/R5-61, 8 Feb 61. (TOP SECRET		REFERENCES	
DOCUMENTS NPIC. NPIC/R-3/61, Jul 61. (TOP SECRET NPIC. NPIC/R-5/61, Sep 61. (TOP SECRET NSA. 3/O/RUJ/R5-61, 8 Feb 61. (TOP SECRET	M	APS OR CHARTS	
NPIC. NPIC/R-3/61, Jul 61. (TOP SECRET NPIC. NPIC/R-5/61, Sep 61. (TOP SECRET NSA. 3/O/RUJ/R5-61, 8 Feb 61. (TOP SECRET		USATC. Series 200, Sheet 0168-6A (Prov.), 1st ed. (Prov.), Apr 57, Scale 1:200,000. (SECRET)	
NPIC. NPIC/R-5/61, Sep 61. (TOP SECRET NSA. 3/O/RUJ/R5-61, 8 Feb 61. (TOP SECRET	D	OCUMENTS	
NSA. 3/O/RUJ/R5-61, 8 Feb 61. (TOP SECRET		NPIC. NPIC/R-3/61, Jul 61. (TOP SECRET	2
		NPIC. NPIC/R-5/61, Sep 61. (TOP SECRET	
		NSA. 3/O/RUJ/R5-61, 8 Feb 61. (TOP SECRET	2
			2
		CIA. Report, 27 Jun 61. (SECRET)	

Sanitized Copy Approved for Release 2011/05/10 : CIA-RDP78T04757A000100010002-6 TOP SECRET

TH 0747-62KH 6 Pages 1 January 1962

NAME: Gvardeysk

NO: II-G-6

LOCATION: Launch Site No 1 (54-40-30N 21-08-00E)

Launch Site No 2 (54-45-05N 21-09-00E)

25**X**1

25X1

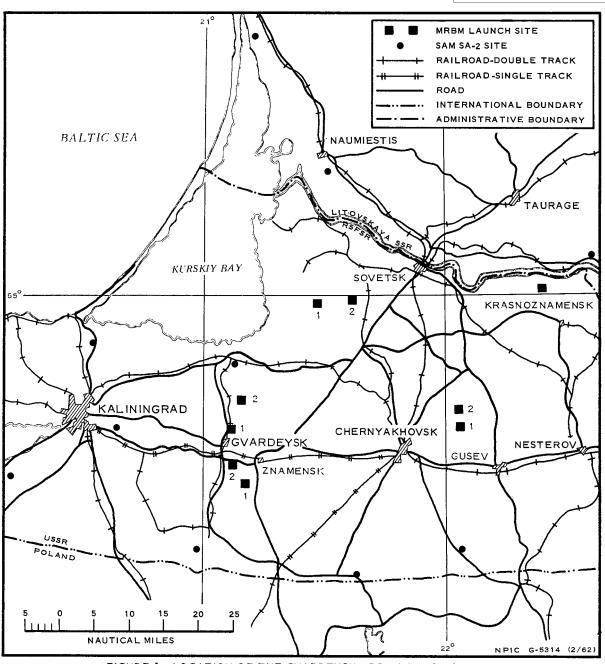


FIGURE 1. LOCATION OF THE GVARDEYSK MRBM LAUNCH COMPLEX.

TOP

SECRET

I. Conclusions

Gvardeysk is a confirmed MRBM launch complex.

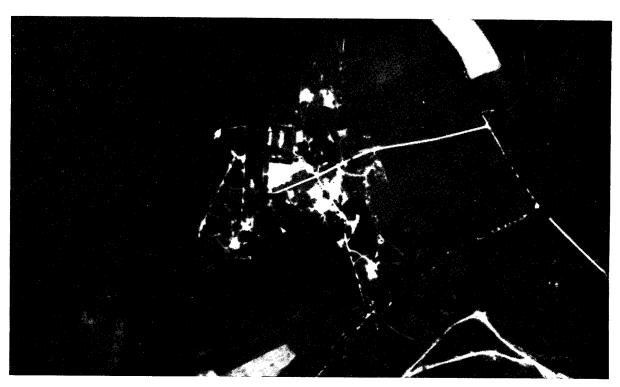
II. Background

A. Photographic evidence

The Gvardeysk MRBM launch complex was identified on KEYHOLE photography of June, August-September, and December 1961 (Figure 1). Launch Site No 1 is located 2.5 nm northeast of Gvardeysk. This launch site consists of a network of roads and clearings in the forest, and when completed will have four launch pads (Figure 2). On the east edge of the launch site there is a small housing and support facility.

Launch Site No 2 is located approximately 5 nm north-northeast of the site described above. It has a dissimilar configuration to other confirmed MRBM launch sites, but there is a very distinct road network with wide-radius turns, four launch pads, and a group of housing and support buildings (Figure 3). The four launch pad areas are approximately 200 feet across, and the support buildings measure 200 by 65 feet. No security provisions can be discerned from photography.

About 7 nm northeast of Gvardeysk there is a probable support facility for the above MRBM complex. The area has a large drive-through building, a smaller drive-through building, and at least five other buildings. This facility is also served by a network of wide-radius-turn roads and is similar to other support areas identified near or at other MRBM launch complexes. It is connected by road to Launch Site No 1.



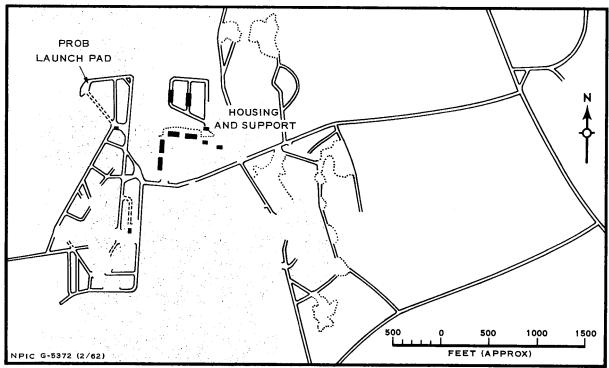
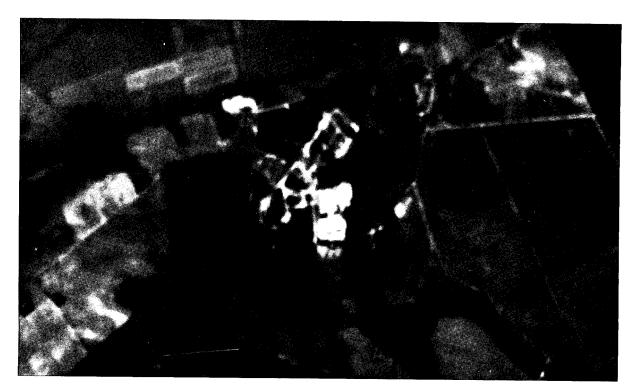


FIGURE 2. GVARDEYSK LAUNCH SITE NO 1.





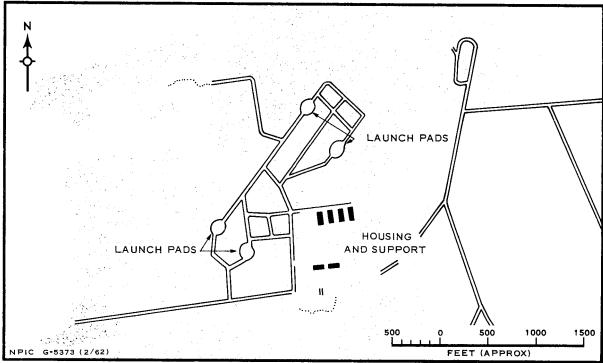


FIGURE 3. GVARDEYSK LAUNCH SITE NO 2.

Sanitized Copy Approved for Release 2011/05/10 : CIA-RDP78T04757A000100010002-6 TOP SECRET	25 X 1
TH 0747-62KH II-G-6	
	25X1
REFERENCES	
MAPS OR CHARTS	
USATC. Series 200, Sheet 0168-6A (Prov.), 1st ed. (Prov.), Apr 57, Scale 1:200,000. (SECRET)	
DOCUMENTS	,
Air, 7000 Support Wing. IR-1277344, 15 Apr 59. (CONFIDENTIAL)	
NSA. 3/O/RUJ/R20-58, 15 May 58. (TOP SECRET	25 X 1
NSA. 3/O/RUJ/R5-61, 8 Feb 61. (TOP SECRET	25 X 1

- 6 **-**

TOP SECRET

NSA. 3/O/RUGM/R491-61, 15 Nov 61. (TOP SECRET

NSA. 3/O/RUL/R30-59, 16 Dec 59. (TOP SECRET

NSA. 3/O/RUM/R40-59, 14 Aug 59. (TOP SECRET

Air. IR-4872-58, 22 May 58. (SECRET)

25X1

25X1

25X1

Sanitized Copy Approved for Release 2011/05/10 : CIA-RDP78T04757A000100010002-6

Sanitized Copy Approved for Release 2011/05/10 : CIA-RDP78T04757A000100010002-6

TOP SECRET

25X1

25X1

TH 0747-62KH 4 Pages 1 January 1962

NAME: Jonava

NO: II-J-2

LOCATION:

Launch Site (55-01-00N 24-14-00E)

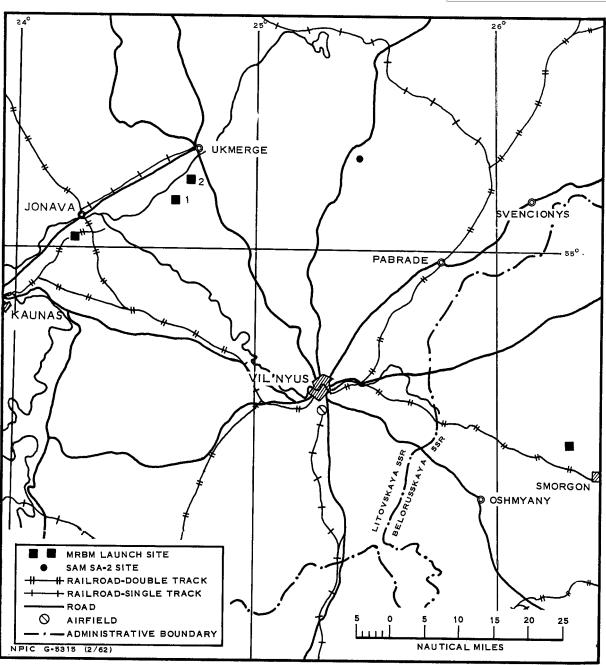


FIGURE 1. LOCATION OF THE JONAVA MRBM LAUNCH SITE.

TOP SECRET

Sanitized Copy Approved	for Release 2011/05/10	: CIA-RDP78T04757A000100010002-	6

TOP SECRET

I. Conclusions

Jonava is a confirmed MRBM launch site.

II. Background

A. Photographic Evidence

An inline launch site was identified on KEYHOLE photography of December 1961 4 nm south-southwest of Jonava and 12.5 nm northeast of Kaunas (Figure 1). The launch site has four pads; each pad has a ready building to the east and a large building area 0.5 nm to the northeast (Figure 2). The launch area is served by road from the Kaunas-Jonava highway.

25X1

25X1

- 2 -



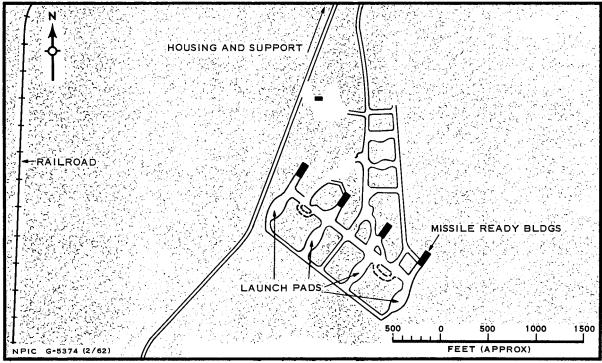


FIGURE 2. JONAVA LAUNCH SITE.

Sanitized Copy Approved for Release 2011/05/10 : CIA-RDP78T04757A000100010002-6
TH 0747-62KH II-J-2
DEDEDENGES
REFERENCES
MAPS OR CHARTS
USATC. Series 200, Sheet 0168-7A, 1st ed., Jul 57, Scale 1:200,000 (SECRET)
DOCUMENTS
NSA. 3/O/RUJ/R26-61, 21 Aug 61. (TOP SECRET
NSA. 3/O/RUA-AW/R-61, 14 Apr 61. (TOP SECRET
NSA. 3/O/RUA-AW/R-61, Correction, 2 May 61. (TOP SECRET
Air. <u>IR-1425191, 16</u> Jun 60. (CONFIDENTIAL)
IN THUSING THE CONTRACTOR OF T
Air: IR-1424819, 10 Feb 60. (CONFIDENTIAL

25X1 25X1 25X1 25X1 25X1 25X1 25X1

25X1

25X1

Sanitized Copy Approved for Release 2011/05/10 : CIA-RDP78T04757A000100010002-6

K

25X1

TH 0747-62KH 4 Pages 1 January 1962

NAME: Korosten'

LOCATION: Launch Site (50-52-10N 28-18-30E)

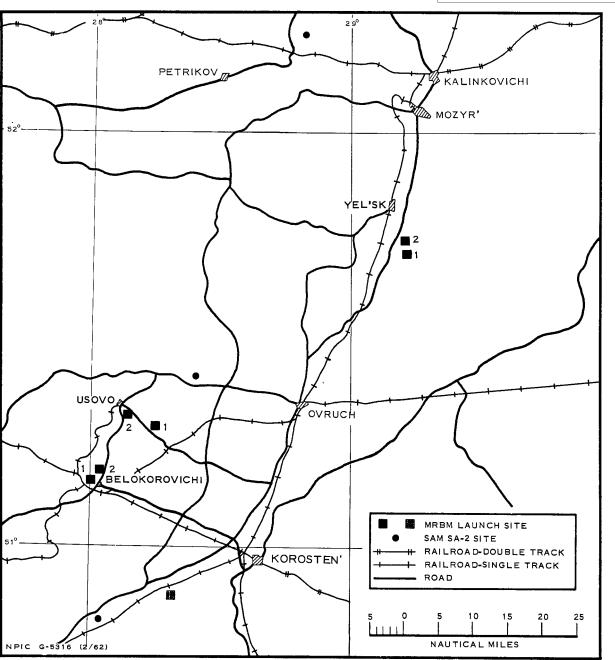


FIGURE 1. LOCATION OF THE KOROSTEN' MRBM LAUNCH SITE.

TOP SECRET

- 1 -

I. Conclusions

Korosten' is a confirmed MRBM launch site.

II. Background

A. Photographic Evidence

The Korosten' MRBM launch site identified on KEYHOLE photography of June 1961, is located in a wooded area about 38 nm south-southwest of Ovruch and about 14 nm west-southwest of Korosten' (Figure 1).

This site consists of four launch pad areas, 200 feet in diameter, arranged in a modified linear pattern generally following the curvature of the Uzh River (Figure 2). The launch pads are a minimum of 535 feet apart. They are interconnected by a series of roads which lead to support buildings and to a probable housing and support area. This launch site is either complete or in a late stage of construction.

Although the site is located within 2 nm of a railroad, there is no evidence of rail-to-road offloading facilities or of a road connecting the site to the railroad or to another existing road.

There is no evidence of a fence around the launch site. A SAM site, located 13 nm west of this MRBM site, may be a part of the air defense system protecting this and other MRBM sites in the area.

system protecting this and other MRBM sites in the area.

25X1

- 2 -



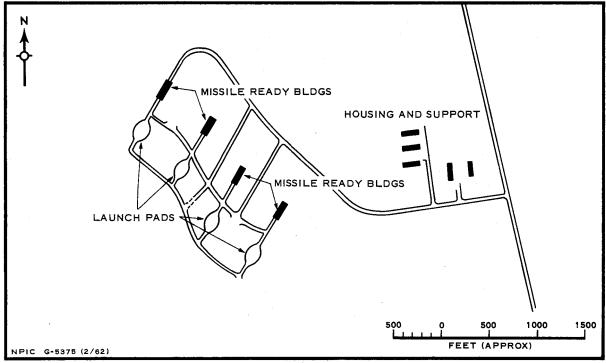


FIGURE 2. KOROSTEN' LAUNCH SITE.

Sanitized Copy Approved for Release 2011/05/10 : CIA-RDP78T04757A000100010002	2-6
TH 0747-62KH II-K-1	
	25
	(
	`
REFERENCES	
MAPS OR CHARTS	
USATC. Series 200, Sheet 0233-7A, 1st ed., Oct 57, Scale 1:200,000. (SECRET)	
DOCUMENTS	
NPIC. NPIC/R-3/61, Jul 61. (TOP SECRET	25
NPIC. NPIC/R-5/61, Sep 61. (TOP SECRET	25
NPIC. NPIC/B-27/61, Sep 61. (TOP SECRET	25
NSA. 3/O/RUL/R30-59, 16 Dec 59. (TOP SECRET	25 25)

TH 0747-62KH 4 Pages 1 January 1962

NAME: Krasnoznamensk NO: II-K-3

LOCATION: Launch Site (55-01-00N 22-23-30E)

25X1

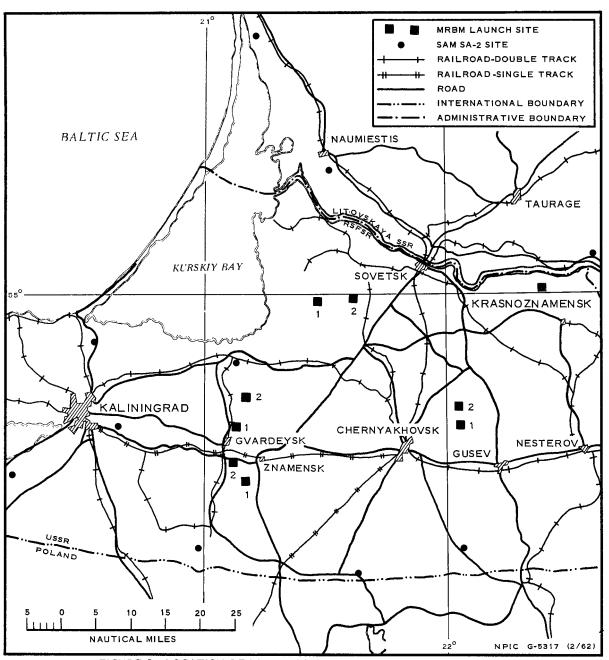


FIGURE 1. LOCATION OF THE KRASNOZNAMENSK MRBM LAUNCH SITE.

I. Conclusions

Krasnoznamensk is a possible* MRBM launch site.

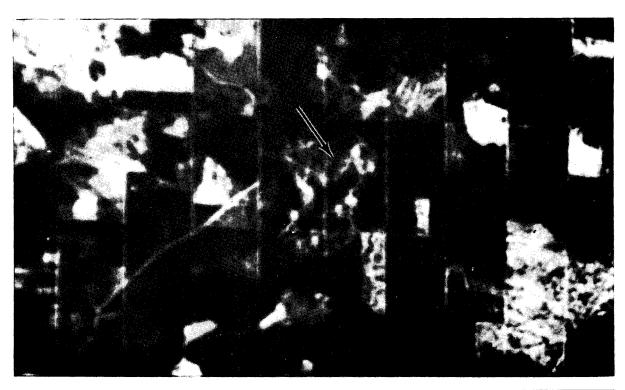
II. Background

A. Photographic Evidence

This possible MRBM launch site of undetermined configuration noted on KEYHOLE photography of June and December 1961, is located in a forest south of the Neman River about 8 nm northwest of the town of Krasnoznamensk (Figure 1). Clearings for four possible launch pads and a support and housing facility are evident within a secured area. The unidentified facility is about 8 nm northwest of Krasnoznamensk (Figure 2). No other launch site has been identified within 10 nm of this possible launch site. There is, however, another unidentified secured, military installation in the woods 3.5 nm north-northwest and north of the Neman River.

25X1

- 2 -



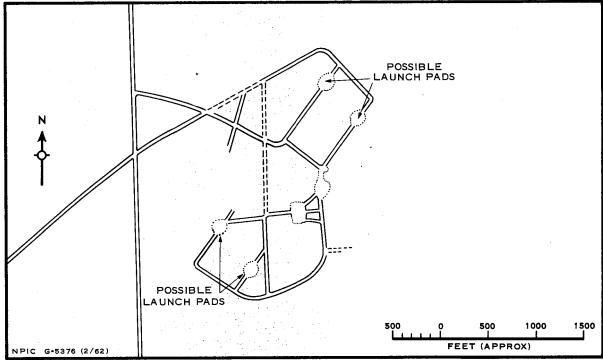


FIGURE 2. KRASNOZNAMENSK LAUNCH SITE.

Sanitized Copy Approved for Release 2011/05/10 : CIA-RDP78T04757A0001000100	002-6 25X
TH 0747-62KH II-K-3	_
	2
REFERENCES	
MAPS OR CHARTS	
USATC. Series 200, Sheet 0168-6A (Prov.), 1st ed. (Prov.), Apr 57, Scale 1:200,000 (SECRI	ET)
DOCUMENTS	
NPIC. NPIC/R-3/61, Jul 61. (TOP SECRET	25X2
NPIC. NPIC/R-5/61, Sep 61. (TOP SECRET	25X
NPIC. NPIC/B-27/61, Sep 61. (TOP SECRET	25 X ′
	25 X ′
Air, 7000th Support Wing. 1430192, 4 Aug 60. (CONFIDENTIAL)	
Air, 7000th Support Wing. 1471495, 1 May 61. (CONFIDENTIAL)	
Army. RP-444-60, 1 Jun 60. (CONFIDENTIAL)	

- 4 -

25X1

Sanitized Copy Approved for Release 2011/05/10 : CIA-RDP78T04757A000100010002-6

TH 0747-62KH 4 Pages

25X1

25X1

1 January 1962

NAME: Kremovo NO: II-K-4

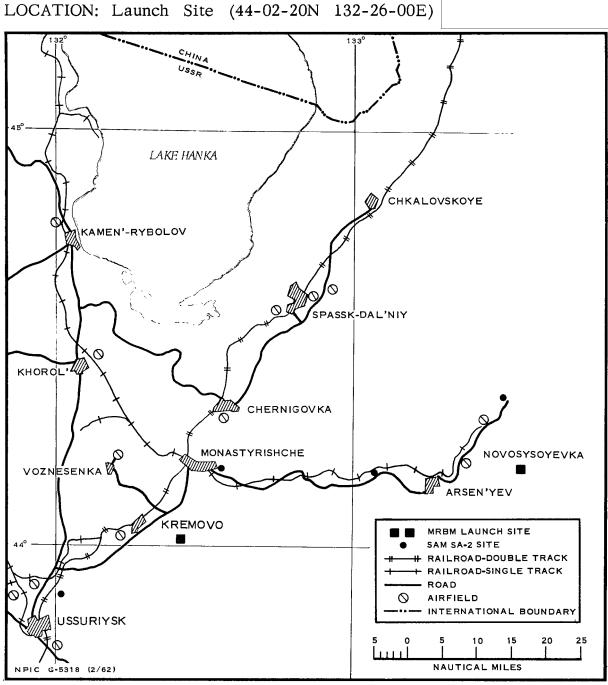


FIGURE 1. LOCATION OF THE POSSIBLE KREMOVO MRBM LAUNCH SITE.

TOP SECRET

I. Conclusions

Kremovo is a possible* MRBM launch site.

II. Background

A. Photographic Evidence

A possible MRBM launch site noted on KEYHOLE photography of December 1960 and August 1961 is located 7 nm east of Kremovo (Figure 1). The launch site is at the terminus of a new road, constructed since 1956, from Kremovo. The area contains at least two road-served, possible launch pads with a support and housing area visible on the east side of the launch site (Figure 2). A support area is located 2.3 nm southwest of the launch area, along the new road from Kremovo. An unidentified area is located 2.5 nm further west of the support area toward Kremovo, along the same, new road, and may serve as additional support. A new road, which leads north toward Lyalichi from the road serving the launch area, appeared under construction between December 1960 and August 1961. As of August 1961 photography, this new road terminates in an open field.

25X1

- 2 -



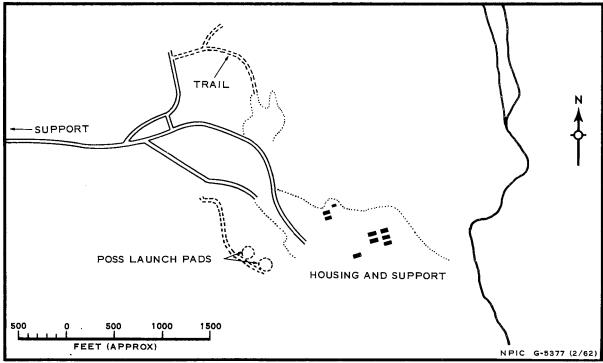


FIGURE 2. POSSIBLE KREMOVO LAUNCH SITE.

Sanitized Copy Approved for Release 2011/05/10 : CIA-RDP78T04757A000100010002-6 TOP SECRET	25X1
TH 0747-62KH II-K-4	
	25X1
REFERENCES	
MAPS OR CHARTS	
USATC. Series 200, Sheet 0282-21A, 2nd ed., Jul 59, Scale 1:200,000 (SECRET)	
DOCUMENTS	
AFIC. TB-61-97, Dec 61. (TOP SECRET	25X1
NSA. 3/O/RUL/R27-59, Aug 59. (TOP SECRET	25 X 1
NSA. 3/O/RUL/R30-59, 16 Dec 59. (Reissue). (TOP SECRET	25 X 1
NSA. 3/O/RUL/R4-60, 1 Feb 60. (TOP SECRET	25 X 1
NSA. 3/O/RUL-AW/R32-60, 6 Jul 60. (TOP SECRET	25X

25X1

TH 0747-62KH 5 Pages 1 January 1962

NAME: Kurgancha

NO: II-K-7

LOCATION: Launch Site No 1 (39-37-15N 65-57-00E)

Launch Site No 2 (39-37-30N 65-57-00E)

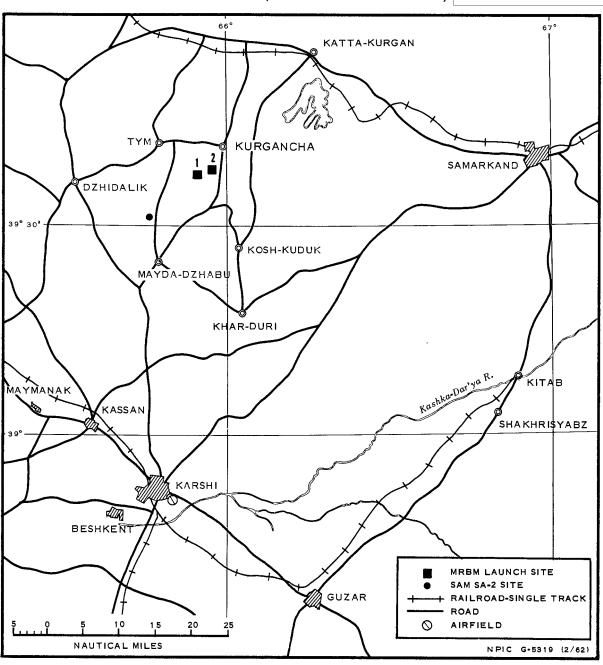


FIGURE 1. LOCATION OF THE KURGANCHA MRBM LAUNCH COMPLEX.

- 1 -

I. Conclusions

Kurgancha is a confirmed MRBM launch complex.

II. Background

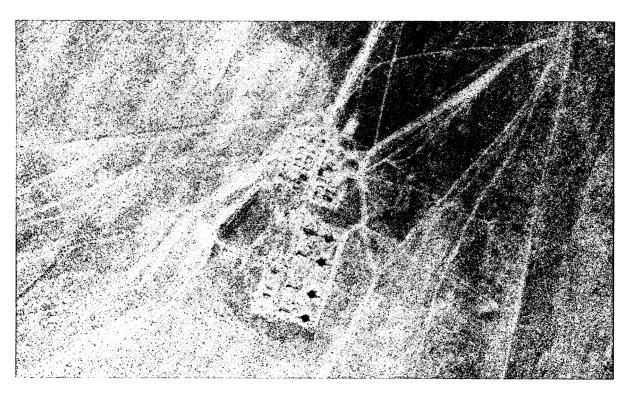
A. Photographic Evidence

The Kurgancha MRBM launch complex was confirmed by KEYHOLE photography of September 1961 (Figure 1). It consists of two launch sites, each with a local support and housing area. The two launch sites are connected by a good road, but there does not appear to be a common support area to serve the complex. The entire complex appears to be nearly completed.

Launch Site No 1 consists of four launch pads arranged in a linear pattern (Figure 2). Missile-ready, drive-through buildings are located on the roads leading to each launch pad and are approximately 200 feet behind the pads. An undetermined number of buildings are located in a support area to the rear of the missile-ready buildings. A housing area consisting of about 14 buildings is located adjacent to the site.

Except for the positioning of the missile-ready buildings at varying distances from the launch pads, Launch Site No 2 appears to be identical to Launch Site No 1 (Figure 3). The local support area is well defined and consists of about 12 buildings ranging in size from 135 by 70 feet to 175 by 70 feet. The housing area is nearly identical to that at Launch Site No 1.

The closest common support area appears to be located in the town of Katta-Kurgan located about 20 nm northeast of the launch complex. A spur off the main rail line leads to a small storage area in the town which may possibly be associated with the launch complex. What appears to be a good road leads from Katta-Kurgan to the launch complex.



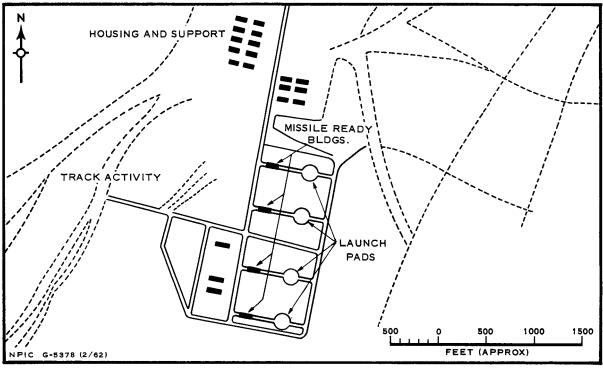
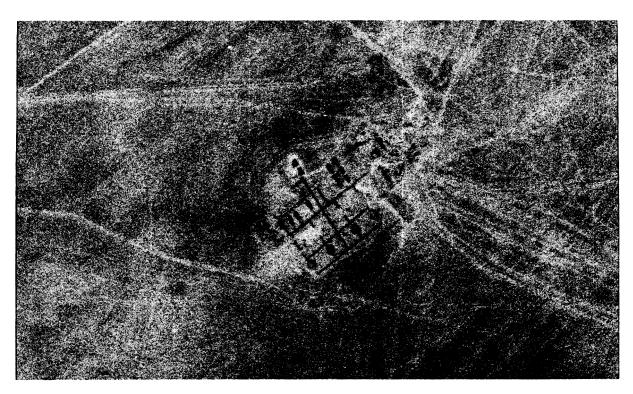


FIGURE 2. KURGANCHA LAUNCH SITE NO 1.

25X1

TH 0747-62KH II-K-7



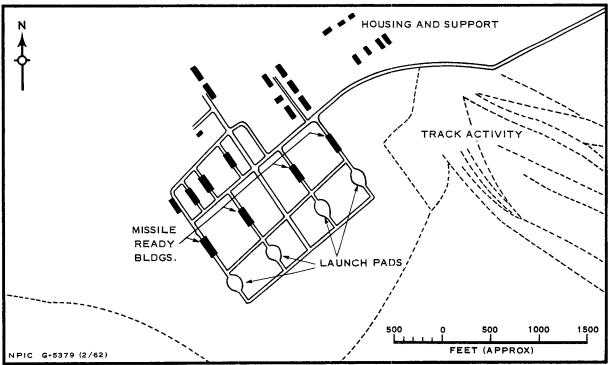


FIGURE 3. KURGANCHA LAUNCH SITE NO 2.

 Sanitized Copy Approved for Release 2011/05/10 : CIA-RDP78T04757A000100010002-6	25 X 1
TH 0747-62KH II-K-7	
	25 X 1
REFERENCES	
MAPS OR CHARTS	
USATC. Series 200, Sheet 0337-5AL, 1st ed., Sep 60, Scale 1:200,000. (SECRET)	
DOCUMENTS NPIC. OAK 9022, Supplement 1, 20 Sep 61. (TOP SECRET	2

25X1

Sanitized Copy Approved for Release 2011/05/10 : CIA-RDP78T04757A000100010002-6

Sanitized Copy Approved for Release 2011/05/10 : CIA-RDP78T04757A000100010002-6

25X1

TH 0747-62KH 6 Pages 1 January 1962

NAME: Mukachevo

NO: II-M-1

LOCATION: Launch Site No 1 (48-18-30N 22-30-30E)

Launch Site No 2 (48-19-30N 22-37-30E)

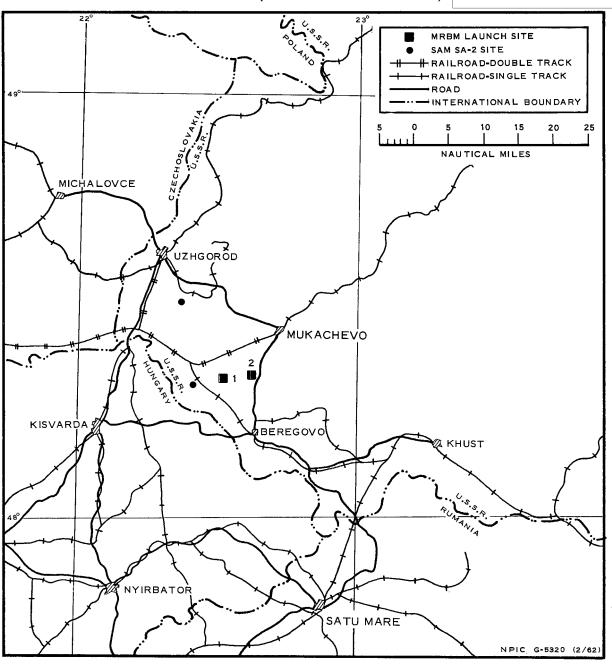


FIGURE 1. LOCATION OF THE MUKACHEVO MRBM LAUNCH COMPLEX.

I. Conclusions

Mukachevo is a confirmed MRBM launch complex.

II. Background

A. Photographic Evidence

KEYHOLE photography of July and August-September 1961 confirms the existence of two MRBM launch sites 10 nm southwest of Mukachevo and 8 nm north-northwest of Beregovo (Figure 1). Both sites appeared to be under construction on July 1961 photography.

Clearings for four pads at Launch Site No 1 have been made in the forest and form a rectangle, measuring approximately 500 by 1,100 feet. No definite drive-through buildings can be identified, although the road pattern in the forest indicates where they probably will be located (Figure 2).

Launch Site No 2 is less clear on photography than the site described above. Measurements of this road-served installation are similar to those of other rectangular MRBM launch sites (Figure 3).

A probable central support area for the two launch sites is under construction at 48-17-00N 22-23-00E, 6 nm northwest of Beregovo.

Construction activity at 48-24-30N 22-41-15E, 3 nm southwest of Mukachevo, may also be associated with the launch sites.

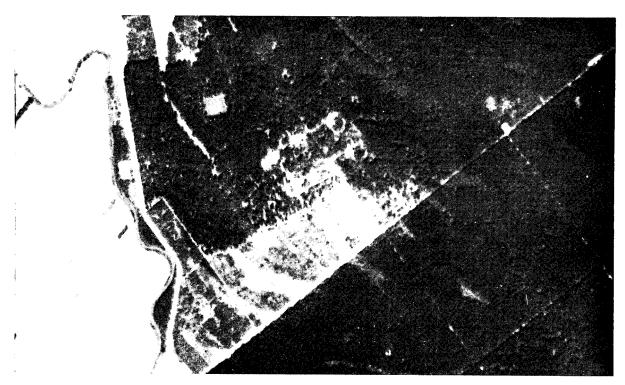
Two SAM sites west-northwest and southwest of Mukachevo may be related to the defense of the Mukachevo launch complex.

25X1

25X1

TOP SECRET

TH 0747-62KH II-M-1



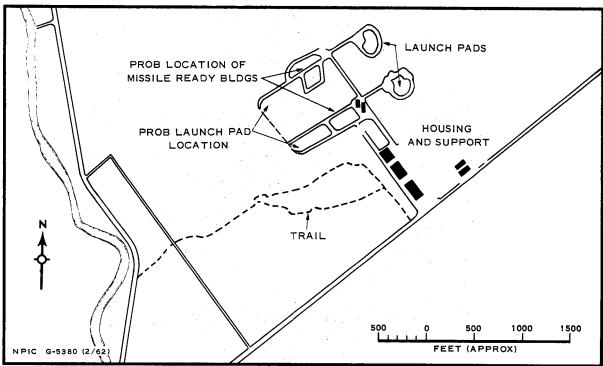


FIGURE 2. MUKACHEVO LAUNCH SITE NO 1.



TOP SECRET

TH 0747-62KH II-M-1



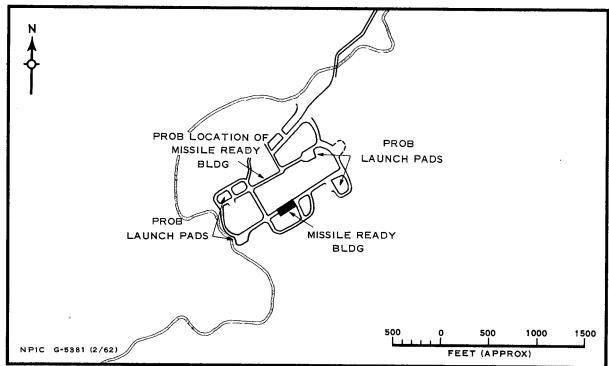


FIGURE 3. MUKACHEVO LAUNCH SITE NO 2.

Sanitized Copy Approved for Release 2011/05/10 : CIA-RDP78T0475 TOP SECRET	57A000100010002-6 25X1
TH 0747-62KH II-M-1	
REFERENCES	
MAPS OR CHARTS	
USATC. Series 200, Sheet 0232-24A, 1st ed., Dec 57, Scale 1:200,000. (SE	CCRET)
DOCUMENTS	
NPIC. NPIC/R-5/61, Sep 61. (TOP SECRET	25 X 1
NPIC. NPIC/B-27/61, Sep 61. (TOP SECRET	25 X 1
NSA. 3/O/RUL/R30-59, 16 Dec 59. (TOP SECRET	25X1
NSA. 3/O/RUGM/R491-61, 15 Nov 61. (TOP SECRET	25X1
NSA. 3/O/RUGM/R427-59, 4 Jan 59. (TOP SECRET	25 X 1
NSA. 3/O/RUJ/R6-61, 8 Feb 61. (TOP SECRET	25 X 1
	25X1
CIA. CIA/RR/EM-61-4, 10 Feb 61. (SECRET)	ı
CIA. FBIS, Daily Report (USSR and East Europe), 9 Dec 59, p. BB 2 - B	B 3. (UNCLASSIFIED)
State, Moscow. Dsp. 372, 23 Jan 58. (CONFIDENTIAL)	
Air. IR-1424814, 12 Feb 60. (CONFIDENTIAL)	

Air, ATIC. FI-5056, 6 May 60. (TOP SECRET

Sanitized Copy Approved for Release 2011/05/10 : CIA-RDP78T04757A000100010002-6

TH 0747-62KH 6 Pages 1 January 1962 25X1

NAME: Nadvornaya

NO: II-N-1

Launch Site No 1 (48-38-45N 24-43-30E) LOCATION:

Launch Site No 2 (48-40-00N 24-48-30E)

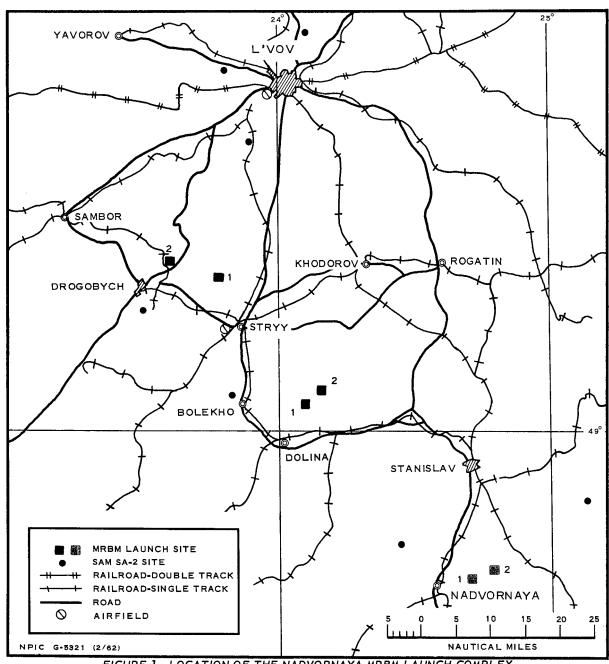


FIGURE 1. LOCATION OF THE NADVORNAYA MRBM LAUNCH COMPLEX.

I. Conclusions

Nadvornaya is a confirmed MRBM launch complex.

II. Background

A. Photographic Evidence

The Nadvornaya MRBM launch complex was identified on KEYHOLE photography of June 1961 (Figure 1).

Launch Site No 1 is located in a forest 6.5 nm east of Nadvornaya and 18 nm south of Stanislav (Figure 2). It has four launch pads, one of which was still under construction in June, but which by the end of 1961 probably had been completed. Five probable buildings of undetermined dimensions are in the immediate area of the launch site. An operational support area with a road pattern indicating the presence of four drive-through buildings plus at least seven additional buildings is located approximately 1.5 nm south-southeast of the launch site.

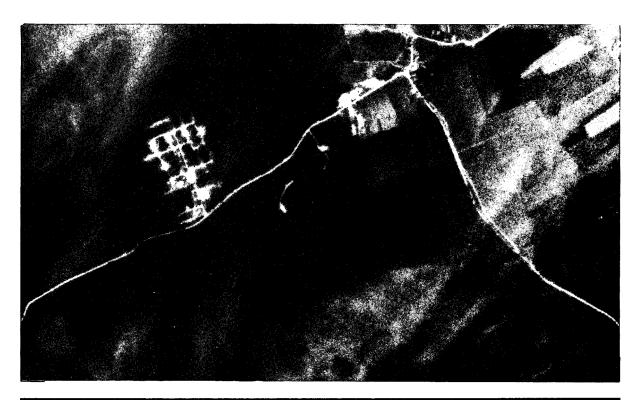
Launch Site No 2, located approximately 3.5 nm northeast of the site described above, has four launch pads (Figure 3). The site appears complete. Adjacent to the launch site, on the south, is a small housing and support area containing at least seven buildings. North of the launch site is an operational support area with a road pattern indicating the presence of four drive-through buildings and at least six other buildings.

The operational support areas at both of these sites appear to be similar in some respects to the missile-handling and storage area at Launch Complex C, Kapustin Yar.

25X1

25X1

- 2 -



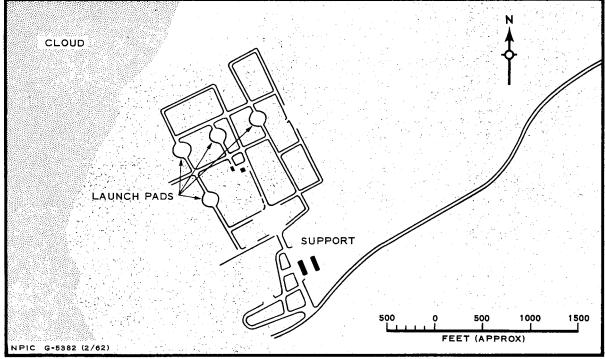
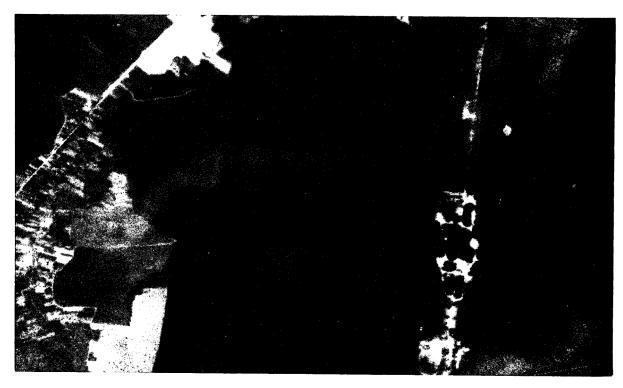


FIGURE 2. NADVORNAYA LAUNCH SITE NO 1.

TOP SECRET





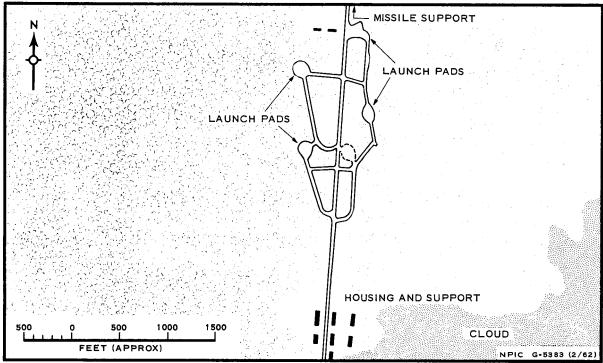


FIGURE 3. NADVORNAYA LAUNCH SITE NO 2.

Sanitized Copy Approved for Release 2011/05/10 : CIA-RDP78T04757A000100010002-6	25 X 1
TH 0747-62KH II-N-1	
REFERENCES	
MAPS OR CHARTS	
USATC. Series 200, Sheet 0232-25A, 1st ed., Dec 57, Scale 1:200,000. (SECRET)	
DOCUMENTS	
NPIC. NPIC/R-3/61, Jul 61. (TOP SECRET	25 X 1
NPIC. NPIC/R-5/61, Sep 61. (TOP SECRET	
NPIC. NPIC/B-27/61, Sep 61. (TOP SECRET	25X1

3/O/RUGM/R491-61, 15 Nov 61. (TOP SECRET

3/O/RUL/R30-59, 16 Dec 59. (TOP SECRET

NSA.

NSA.

25X1

Sanitized Copy Approved for Release 2011/05/10 : CIA-RDP78T04757A000100010002-6 TOP SECRET

TH 0747-62KH 4 Pages

25X1

25X1

1 January 1962

NAME: Novosysoyevka

NO: II-N-2

LOCATION: Launch Site (44-11-20N 133-33-30E)

LAKE HANKA CHKALOVSKOYE KAMEN'-RYBOLOV PASSK-DAL'NIY KHOROL 🏿 CHERNIGOVKA MONASTYRISHCHE NOVOSYSOYEVKA VOZNESENKA KREMOVO MRBM LAUNCH SITE SAM SA-2 SITE RAILROAD-DOUBLE TRACK RAILROAD-SINGLE TRACK ROAD AIRFIELD INTERNATIONAL BOUNDARY USSURIYSK 25 NPIC G-5322 (2/62) NAUTICAL MILES

FIGURE 1. LOCATION OF THE NOVOSYSOYEVKA MRBM LAUNCH SITE.

TOP SECRET

I. <u>Conclusions</u>

Novosysoyevka is a probable MRBM launch site.

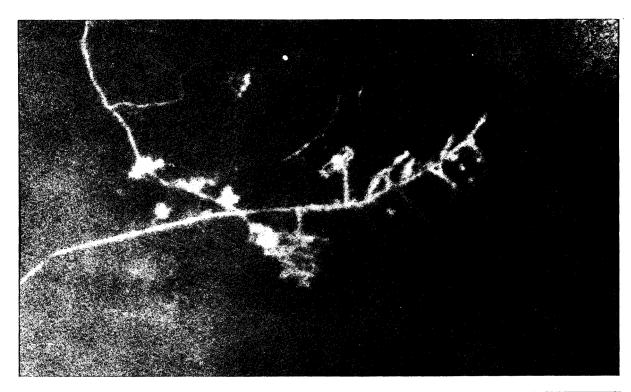
II. Background

A. Photographic Evidence

This probable MRBM launch site noted on KEYHOLE photography of September 1961, is located 3.5 nm southeast of Novosysoyevka (Figure 1). The road pattern and layout of facilities in this launch site are characteristic of those found at other MRBM launch sites, particularly that of Balta MRBM Launch Site No 2. There are four probable pad areas arranged in a linear pattern. Probable support and housing facilities also are located nearby. The probable MRBM launch site is road served (Figure 2).



- 2 -



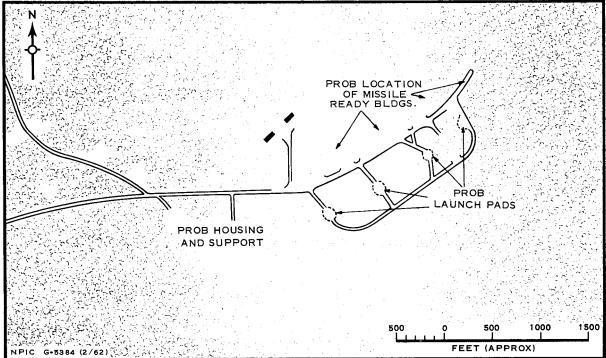


FIGURE 2. NOVOSYSOYEVKA LAUNCH SITE.

Sanitized Copy Approved for Release 2011/05/10 : CIA-RDP78T04757A000100010002-6	25X1
TH 0747-62KH II-N-2	
	25X1
REFERENCES	
MAPS OR CHARTS	
USATC. Series 200, Sheet 0282-22A, 1st ed, Mar 58, Scale 1:200,000 (SECRET)	
DOCUMENTS	
AFIC. TB61-97, Dec 61. (TOP SECRET	2 <u>5X</u> 1
NSA. 3/O/RUL/R27-59, 7 Aug 59, (TOP SECRET	25X1
NSA. 3/O/RUL/R30-59, 16 Dec 59 (Reissue). (TOP SECRET	25 X 1

Sanitized Copy Approved for Release 2011/05/10 : CIA-RDP78T04757A000100010002-6

Sanitized Copy Approved for Release 2011/05/10 : CIA-RDP78T04757A000100010002-6

P

25X1

TH 0747-62KH 6 Pages 1 January 1962

NAME: Paplaka NO: II-P-1

LOCATION: Launch Site No 1 (56-22-50N 21-16-00E)

Launch Site No 2 (56-24-40N 21-16-00E)

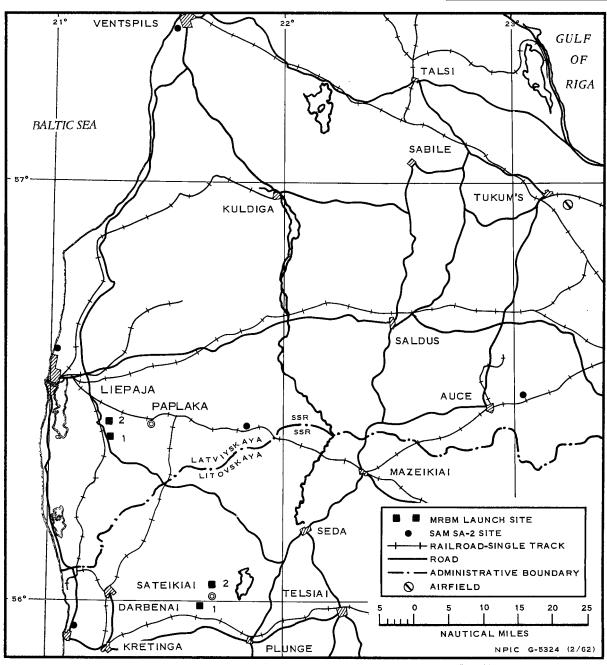


FIGURE 1. LOCATION OF THE PAPLAKA MRBM LAUNCH COMPLEX.

- 1 -

I. Conclusions

Paplaka is a confirmed MRBM launch complex.

II. Background

A. Photographic Evidence

The Paplaka MRBM launch complex, identified on KEYHOLE photography of July 1961, is located approximately 10 nm southeast of Liepaja and 6.5 nm west-southwest of Paplaka (Figure 1).

Of the two launch sites at Paplaka, Site No 1 (Figure 2) is partially obscured by cloud and cloud shadow and individual buildings cannot be identified. The four launch pads are aligned in a north-south direction and the support area is situated to the east. The configuration of the site is generally similar to the more clearly defined Launch Site No 2.

Launch Site No 2 (Figure 3) has a different type of road pattern from other MRBM launch sites where the pads are arranged linearly. The four launch pads are aligned in a north-south line, and two drive-through buildings are located near the pads.

The launch pads are in pairs 680 feet apart. Each pair of pads are separated by a distance of 535 feet. A small support area with at least seven small buildings is located immediately to the east of the pads.



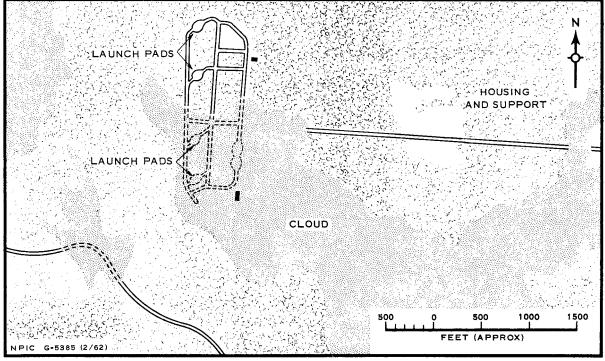
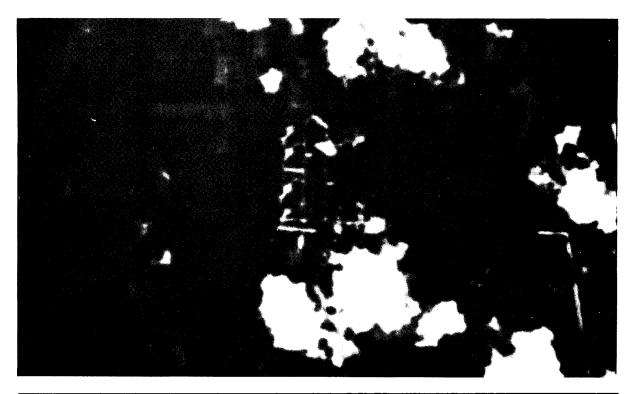


FIGURE 2. PAPLAKA LAUNCH SITE NO 1.





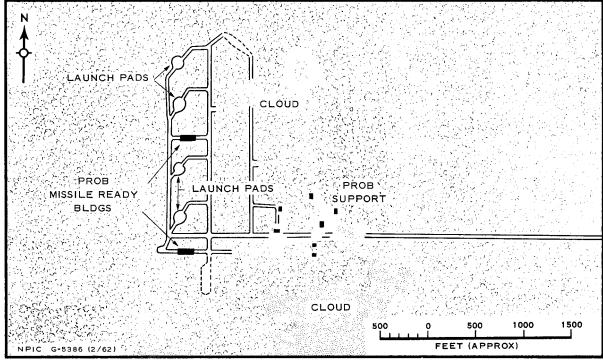


FIGURE 3. PAPLAKA LAUNCH SITE NO 2.

Sanitized Copy Approved for Release 2011/05/10 : CIA-RDP78T04757A000100010002-6	25 X 1
TH 0747-62KH II-P-1	
REFERENCES	
MAPS OR CHARTS	
USATC. Series 200, Sheet 0152-25AL, 4th ed., Nov 61, Scale 1:200,000. (SECRET)	
DOCUMENTS	
NPIC. OAK 9019, Pt 1, 14 Jul 61. (TOP SECRET	25 X 1
NPIC. NPIC/R-5/61, Sep 61. (TOP SECRET	25 X 1
	25 X 1
NSA. 3/O/RUL/R06-60, 11 Feb 60. (TOP SECRET	25 X 1
NSA. 3/O/RUL/R15-60, 1 Apr 60. (TOP SECRET	25X1

2<u>5X</u>1

3/O/RUL-AW/R02-61, 3 Mar 61. (TOP SECRET

3/O/RUJ/R5-61, 8 Feb 61. (TOP SECRET

RP 1073-60, 15 Jul 60. (CONFIDENTIAL)

NSA.

NSA.

Army.

Sanitized Copy Approved for Release 2011/05/10 : CIA-RDP78T04757A000100010002-6 TOP SECRET |

25X1

TH 0747-62KH 5 Pages 1 January 1962

NAME: Polotsk NO: II-P-2

LOCATION: Launch Site No 1 (55-23-00N 28-43-00E)

Launch Site No 2 (55-25-10N 28-34-30E)

25X1

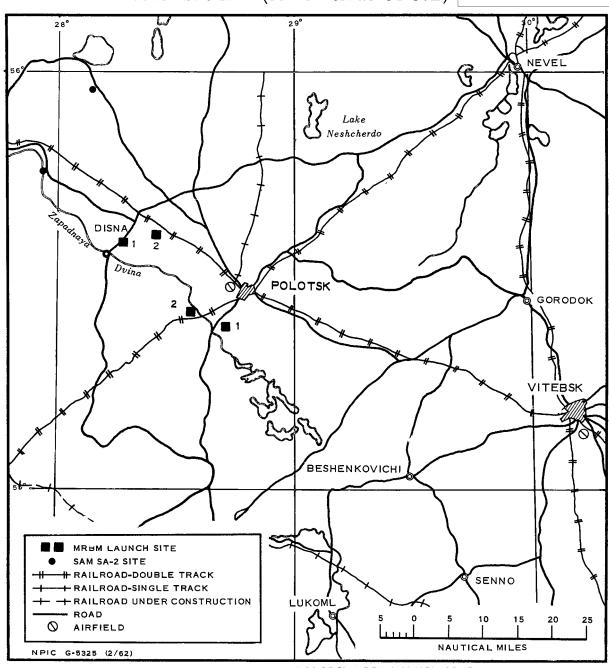


FIGURE 1. LOCATION OF THE POLOTSK MRBM LAUNCH COMPLEX.

I. Conclusions

Polotsk is a confirmed MRBM launch complex.

II. Background

A. Photographic Evidence

The Polotsk MRBM launch complex was observed on KEYHOLE photography of September 1961 and consists of two launch sites located approximately 7 nm south and southwest of Polotsk (Figure 1). The launch pads at both sites are arranged in a linear pattern and the sites are about 6 nm apart (Figures 2 and 3). The major portion of both sites was obscured by clouds precluding a more detailed interpretation of facilities in the launch and support area.

\Box			

TH 0747-62KH II-P-2



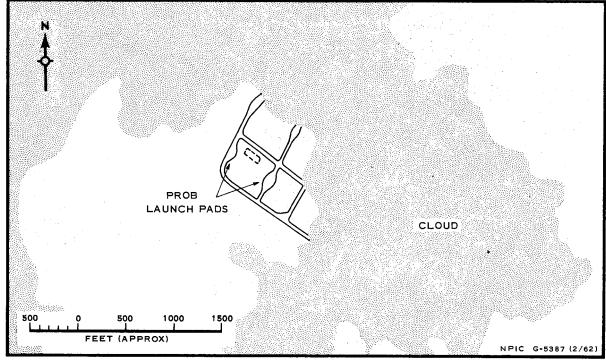


FIGURE 2. POLOTSK LAUNCH SITE NO 1.



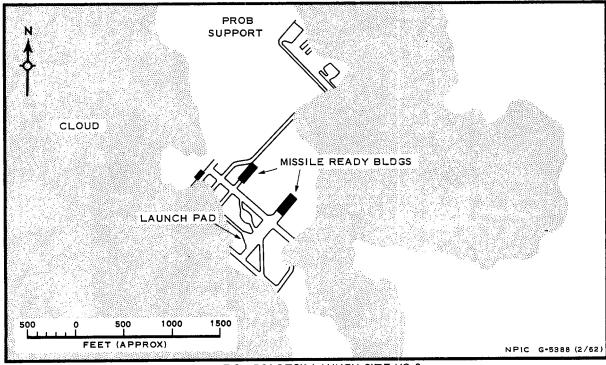


FIGURE 3. POLOTSK LAUNCH SITE NO 2.

Sanitized Copy Approved for Release 2011/05/10 : CIA-RDP78T04757A00 TOP SECRET	00100010002-6 _ TH 0747-62KH II-P-2
REFERENCES	
MAPS OR CHARTS	
USATC. Series 200, Sheet 0168-5A, 1st ed., Nov 57, Scale 1:200,000. (SEC	RET)
DOCUMENTS	
NPIC. OAK 9023, Supplement 1, 11 Sep 61. (TOP SECRET	
NSA. 3/O/RUJ/R25-61, 21 Aug 61. (TOP SECRET	
NSA. 3/O/RUJ/R26-61, 21 Aug 61. (TOP SECRET	

NSA. 3/O/RUGM/R76-60, 2 Mar 60. (TOP SECRET

25X1

25X1

25X1

TH 0747-62KH 5 Pages 1 January 1962

NAME: Pruzhany

NO: II-P-4

LOCATION: Launch Site No 1 (52-30-30N 24-08-30E)

Launch Site No 2 (52-33-00N 24-07-00E)

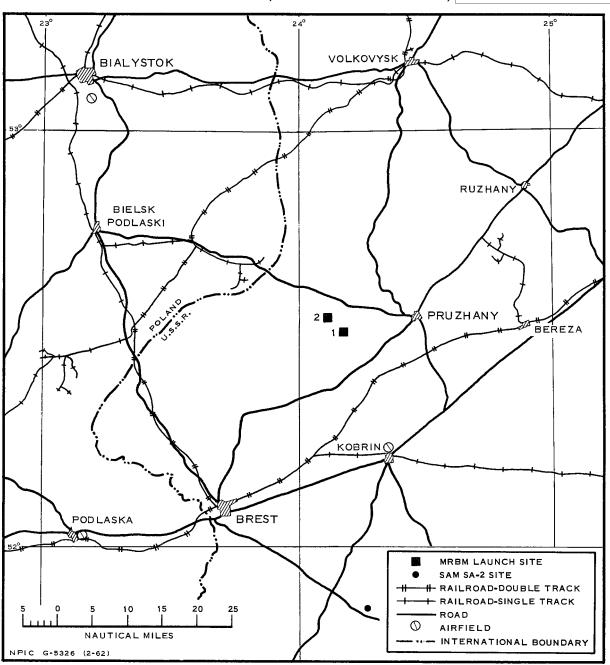


FIGURE 1. LOCATION OF THE PRUZHANY MRBM LAUNCH COMPLEX.

I. Conclusions

Pruzhany is a confirmed MRBM launch complex.

II. Background

A. Photographic Evidence

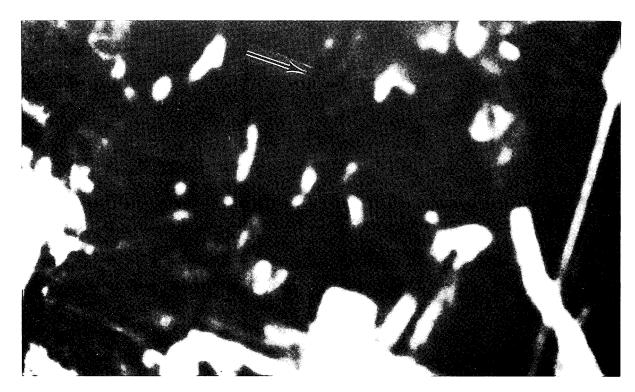
The Pruzhany MRBM launch complex, identified on KEYHOLE photography of July 1961 and December 1961, is located about 13 nm west of Pruzhany and 30 nm north-northeast of Brest (Figure 1). Heavy cloud cover precluded a thorough search of the Brest area on July 1961 photography, but on December 1961 photography the second site was identified, completing the pair for the complex.

Both of the Pruzhany sites are typical of other sites, with a linear pad arrangement, observed to date. Launch Site No 1, located about 15 nm west of Pruzhany, has four pads and four probable missile-ready buildings, but no support facilities are discernible (Figure 2).

Launch Site No 2 is located about 2.6 nm north-northwest of the above site. It too has four launch pads aligned about 550 feet apart with the usual series of interconnecting roads. A support area with at least seven buildings is located immediately south of the launch site (Figure 3).

ings is located immediately south of the launch site (Figure 3).

25X1



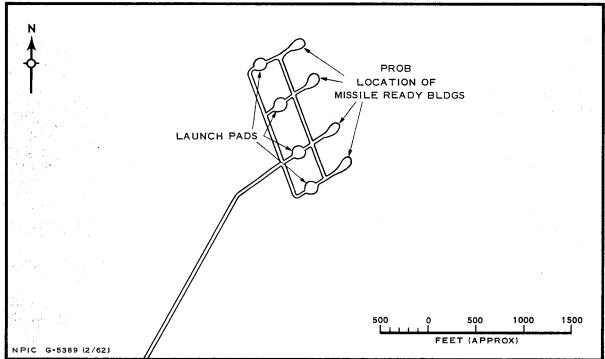


FIGURE 2. PRUZHANY LAUNCH SITE NO 1.

- 3 -



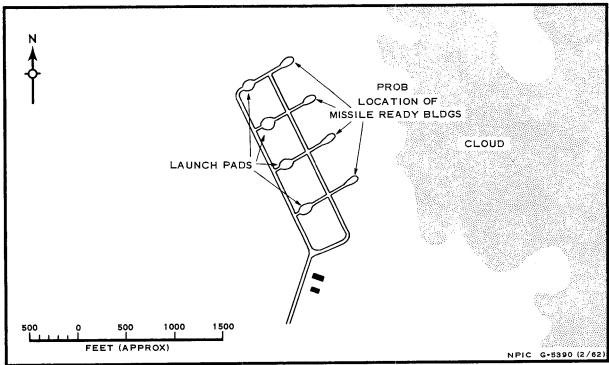


FIGURE 3. PRUZHANY LAUNCH SITE NO 2.

	TH 0747-62KH II-P-4
	11-1 -4
	
REFERENCES	
REFERENCES MAPS OR CHARTS	
	1:200,000. (SECRET)
MAPS OR CHARTS USATC. Series 200, Sheet 0168-22A, 1st ed., Jun 57, Scale	1:200,000. (SECRET)
MAPS OR CHARTS USATC. Series 200, Sheet 0168-22A, 1st ed., Jun 57, Scale DOCUMENTS	1:200,000. (SECRET)
MAPS OR CHARTS USATC. Series 200, Sheet 0168-22A, 1st ed., Jun 57, Scale DOCUMENTS NPIC. OAK 9019, Pt. 1, 14 Jul 61. (TOP SECRET	1:200,000. (SECRET)
MAPS OR CHARTS USATC. Series 200, Sheet 0168-22A, 1st ed., Jun 57, Scale DOCUMENTS NPIC. OAK 9019, Pt. 1, 14 Jul 61. (TOP SECRET NPIC. NPIC/R-5/61, Sep 61. (TOP SECRET	1:200,000. (SECRET)
MAPS OR CHARTS USATC. Series 200, Sheet 0168-22A, 1st ed., Jun 57, Scale DOCUMENTS NPIC. OAK 9019, Pt. 1, 14 Jul 61. (TOP SECRET NPIC. NPIC/R-5/61, Sep 61. (TOP SECRET NPIC. NPIC/B-27/61, Sep 61. (TOP SECRET	1:200,000. (SECRET)
MAPS OR CHARTS USATC. Series 200, Sheet 0168-22A, 1st ed., Jun 57, Scale DOCUMENTS NPIC. OAK 9019, Pt. 1, 14 Jul 61. (TOP SECRET NPIC. NPIC/R-5/61, Sep 61. (TOP SECRET NPIC. NPIC/B-27/61, Sep 61. (TOP SECRET CIA. Report, 14 Oct 59. (CONFIDENTIAL)	
MAPS OR CHARTS USATC. Series 200, Sheet 0168-22A, 1st ed., Jun 57, Scale DOCUMENTS NPIC. OAK 9019, Pt. 1, 14 Jul 61. (TOP SECRET NPIC. NPIC/R-5/61, Sep 61. (TOP SECRET NPIC. NPIC/B-27/61, Sep 61. (TOP SECRET	
MAPS OR CHARTS USATC. Series 200, Sheet 0168-22A, 1st ed., Jun 57, Scale DOCUMENTS NPIC. OAK 9019, Pt. 1, 14 Jul 61. (TOP SECRET NPIC. NPIC/R-5/61, Sep 61. (TOP SECRET NPIC. NPIC/B-27/61, Sep 61. (TOP SECRET CIA. Report, 14 Oct 59. (CONFIDENTIAL)	

TOP SECRET Sanitized Copy Approved for Release 2011/05/10 : CIA-RDP78T04757A000100010002-6

25X1

TH 0747-62KH 5 Pages 1 January 1962

NAME: Rakvere _____NO: II-R-1

LOCATION: Launch Site No 1 (59-08-20N 26-26-30E)

Launch Site No 2 (59-11-30N 26-20-25E)

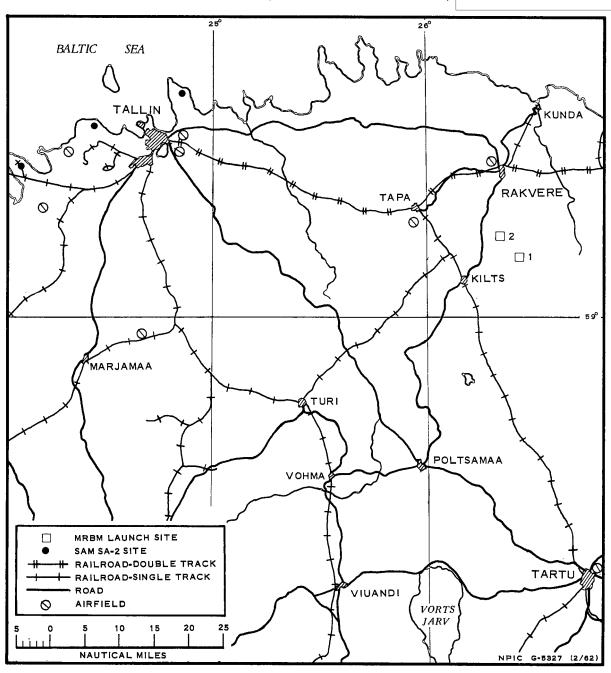


FIGURE 1. LOCATION OF THE RAKVERE MRBM LAUNCH COMPLEX.

- 1 -

25X1

TOP SECRET

I. Conclusions

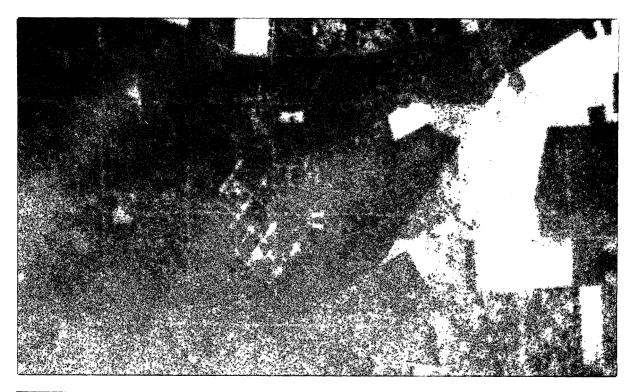
Rakvere is a confirmed MRBM launch complex.

II. Background

A. Photographic Evidence

The Rakvere MRBM launch complex was identified on KEYHOLE photography of September and December 1961.

This MRBM launch complex, composed of two road-served launch sites, is located in a wooded area approximately 12 nm (center of complex) south of Rakvere (Figure 1). The main rail line between Tallinn and Leningrad passes through Rakvere. The southernmost site, designated as Launch Site No 1 has four pads placed in an offset linear configuration. Behind each pad is a clearing probably containing a missile-ready building (Figure 2). A small housing and support area is immediately to the north of the launch pads. The northernmost site, designated as Launch Site No 2, has four pads arranged in a linear configuration each of which probably has an associated missile-ready building. A small support area is located about 750 feet to the southeast (Figure 3).



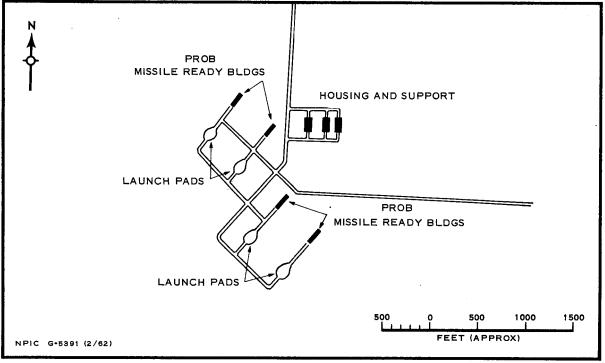


FIGURE 2. RAKVERE LAUNCH SITE NO 1.



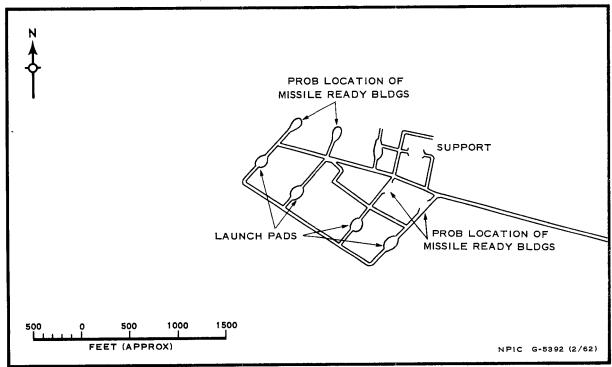


FIGURE 3. RAKVERE LAUNCH SITE NO 2.

Sanitized Copy Approved for Release 2011/	05/10 : CIA-RDP78T04757A00	0100010002-6	25X1
IOP SECRET			23/1
		ГН 0747-62КН	

REFERENCES

MAPS OR CHARTS

USATC. Series 200, Sheet 0153-2AL, 2nd ed., Oct 59, Scale 1:200,000. (SECRET)

DOCUMENTS

NPIC. OAK 9029, Pt. 1, 22 Dec 61. (TOP SECRET

NPIC. NPIC/B-39/61, Nov 61. (TOP SECRET

CIA. Report, 18 Sep 61. (CONFIDENTIAL)

25X1

II-R-1

25X1

- 5 -

TH 0747-62KH 5 Pages 1 January 1962

NAME: Sateikiai NO: II-S-1

LOCATION: Launch Site No 1 (55-59-30N 21-39-10E)

Launch Site No 2 (56-02-00N 21-42-00E)

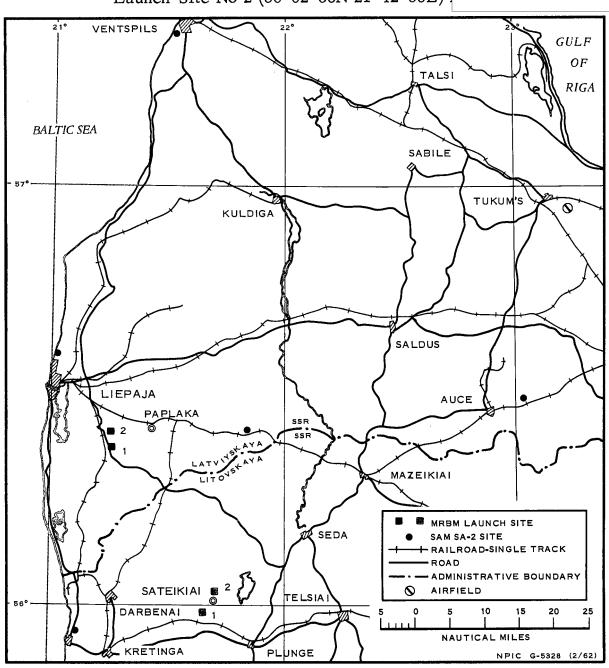


FIGURE 1. LOCATION OF THE SATEIKIAI MRBM LAUNCH COMPLEX.

I. Conclusions

Sateikiai is a confirmed MRBM launch complex.

II. Background

A. Photographic Evidence

KEYHOLE photography of July 1961 confirms the presence of two MRBM launch sites near the town of Sateikiai and west-southwest of Platelin Lake (Figure 1). The southern site has an offset inline configuration, the other is irregular.

Launch Site No 1 is located in a forest about one nautical mile (nm) north of the Sateikiai railroad station. It has four launch pads grouped in pairs (Figure 2). The pads of each pair are approximately 500 feet apart and are oriented northeast to southwest. Only one drive-through building is evident, and a support area of at least six buildings is located nearby. Approximately one nm east-southeast of the pads is another support area with at least nine buildings.

Launch Site No 2, about 3.5 nm north-northeast of the launch site described above, also has four pads which are grouped in pairs approximately 1,000 feet apart (Figure 3). The pads are aligned northeast to southwest. In one pair the pad areas are about 400 feet apart, whereas those in the other pair are about 800 feet apart. Only one drive-through building is evident on photography, although both probably are present.

A support area consisting of at least ten buildings is situated adjacent to and southeast of the pads. Road patterns indicate possible additional support facilities approximately a mile south of the launch support area.

25X1

- 2 -



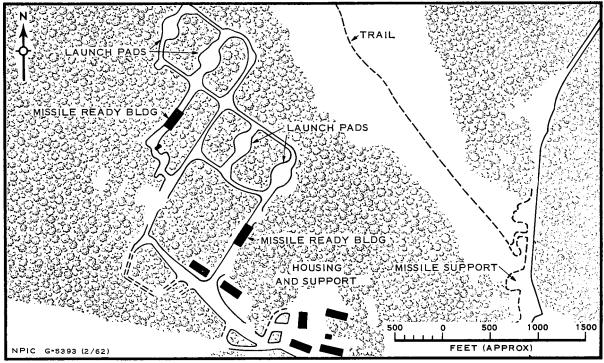


FIGURE 2. SATEIKIAI LAUNCH SITE NO 1.



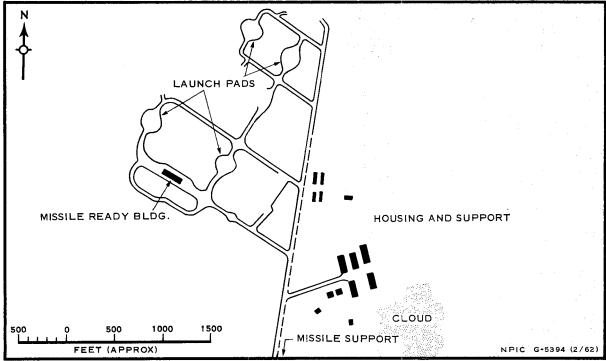


FIGURE 3. SATEIKIAI LAUNCH SITE NO 2.

Sanitized Copy Approved for Release 2011/05/10 : CIA-RDP78T04757A000100010002-6	25 X 1
TH 0747-62KH II-S-1	
	25X1
•	
REFERENCES	
MAPS OR CHARTS	
USATC. Series 200, Sheet 0152-25AL, 4th ed., Nov 61, Scale 1:200,000. (SECRET)	
USATC. Series 200, Sheet 0168-1A, 1st ed., Jul 57, Scale 1:200,000. (SECRET)	
DOCUMENTS	0EV4
NPIC. OAK 9019, Pt. 1, 14 Jul 61. (TOP SECRET	25X1
NPIC. NPIC/R-5/61, Sep 61. (TOP SECRET	25X1 25X1
NPIC. NPIC/B-27/61, Sep 61. (TOP SECRET	23/1
Army. 513 Mil Grp. ID-2150540, May 60 (CONFIDENTIAL) Air. IR-269209, 18 Dec 59. (SECRET)	
Air. IR-1425363, 27 Jul 60. (SECRET)	
Air. IR-147167, 19 Apr 61. (SECRET)	

- 5 -

25X1

Air. IR-1429488, 15 Nov 60. (CONFIDENTIAL)

TH 0747-62KH 5 Pages 1 January 1962

NAME: Skala-Podol'skaya

NO: II-S-2

LOCATION: Launch Site No 1 (48-51-30N 26-08-30E)

Launch Site No 2 (48-53-00N 26-03-30E)

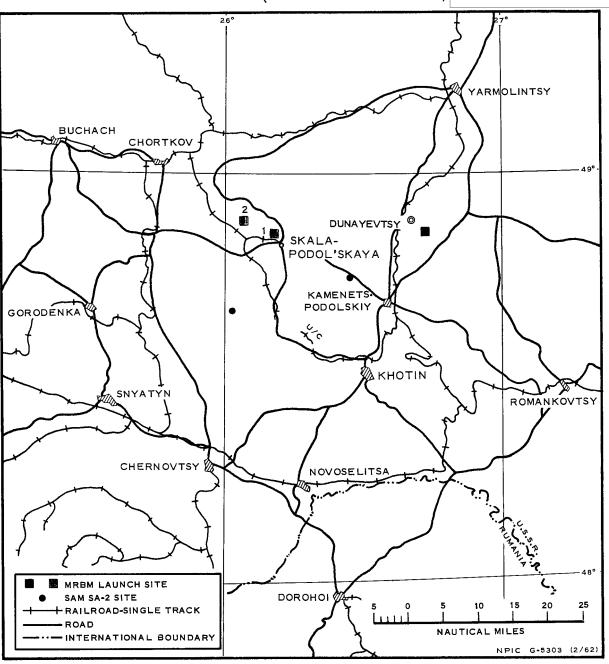


FIGURE 1. LOCATION OF THE SKALA-PODOL'SKAYA MRBM LAUNCH COMPLEX.

- 1 -

I. Conclusions

Skala-Podol'skaya is a confirmed MRBM launch complex.

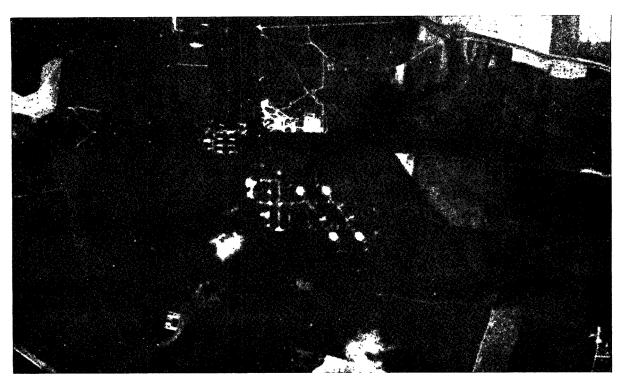
II. Background

A. Photographic Evidence

The Skala-Podol'skaya MRBM launch complex was identified on KEYHOLE photography of June 1961 (Figure 1).

Launch Site No 1 is located 3 nm west of Skala-Podol'skaya (Figure 2). It is in a wooded area 2 nm south of the Chortkov/Kamenets-Podolskiy highway. The site consists of four launch pads in parallel pairs and adjacent support facilities. Each pair is approximately 300 feet apart and the pads are approximately 880 feet apart. Several buildings identified in the immediate launch site measure approximately 130 by 50 feet. The site appears to be completed. Adjacent to the launch site is a small housing and support area containing at least seven 130- by 50-foot buildings. To the north of the launch site is a possible support area.

Launch Site No 2 is located in the forest 6 nm west-northwest of Skala-Podol'skaya (Figure 3). It also has four launch pads which appear to be completed. The corresponding pads in each pair are separated by 300 and 510 feet, respectively; the two pads in each pair are about 800 feet apart, and a series of roads connect the pads. A cleared area on each of four service roads probably contains a drive-through building. North of the launch site there is a small housing and support area containing eight 150- by 50-foot buildings.



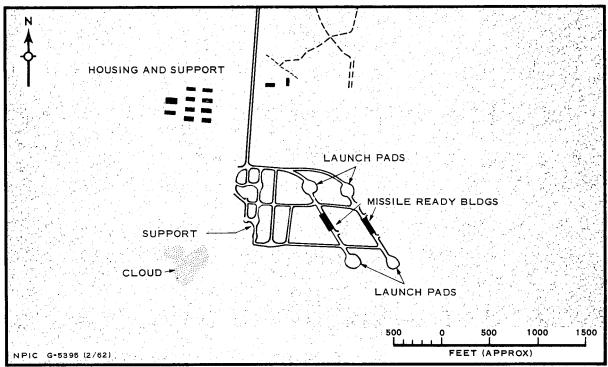


FIGURE 2. SKALA-PODOL'SKAYA LAUNCH SITE NO 1.



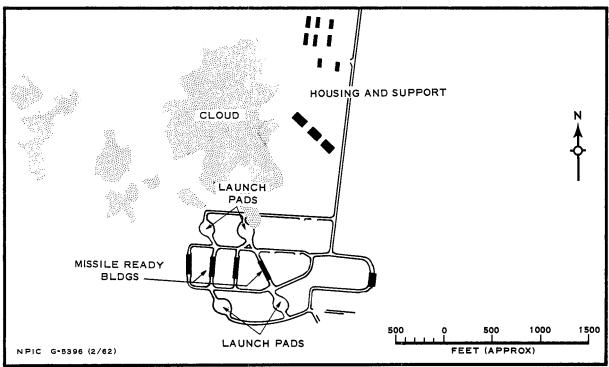


FIGURE 3. SKALA-PODOL'SKAYA LAUNCH SITE NO 2.

Sanitized Copy Approved for Release 2011/05/10 : CIA-RDP78T0	TH 0747-62KH II-S-2
REFERENCES	
MAPS OR CHARTS	
MAPS OR CHARTS USATC. Series 200, Sheet 0233-16AL, 3rd ed., May 61, Scale 1:200	,000. (SECRET)
	,000. (SECRET)
USATC. Series 200, Sheet 0233-16AL, 3rd ed., May 61, Scale 1:200 DOCUMENTS NPIC. NPIC/R-3/61, Jul 61. (TOP SECRET	,000. (SECRET)
USATC. Series 200, Sheet 0233-16AL, 3rd ed., May 61, Scale 1:200 DOCUMENTS NPIC. NPIC/R-3/61, Jul 61. (TOP SECRET NPIC. NPIC/R-5/61, Sep 61. (TOP SECRET	,000. (SECRET)
USATC. Series 200, Sheet 0233-16AL, 3rd ed., May 61, Scale 1:200 DOCUMENTS NPIC. NPIC/R-3/61, Jul 61. (TOP SECRET NPIC. NPIC/R-5/61, Sep 61. (TOP SECRET NPIC. NPIC/B-27/61, Sep 61. (TOP SECRET	,000. (SECRET)
USATC. Series 200, Sheet 0233-16AL, 3rd ed., May 61, Scale 1:200 DOCUMENTS NPIC. NPIC/R-3/61, Jul 61. (TOP SECRET NPIC. NPIC/R-5/61, Sep 61. (TOP SECRET NPIC. NPIC/B-27/61, Sep 61. (TOP SECRET CIA. Report, 16 Mar 61. (CONFIDENTIAL)	,000. (SECRET)
USATC. Series 200, Sheet 0233-16AL, 3rd ed., May 61, Scale 1:200 DOCUMENTS NPIC. NPIC/R-3/61, Jul 61. (TOP SECRET NPIC. NPIC/R-5/61, Sep 61. (TOP SECRET NPIC. NPIC/B-27/61, Sep 61. (TOP SECRET CIA. Report, 16 Mar 61. (CONFIDENTIAL) CIA. Report, 15 Dec 60. (CONFIDENTIAL)	,000. (SECRET)
USATC. Series 200, Sheet 0233-16AL, 3rd ed., May 61, Scale 1:200 DOCUMENTS NPIC. NPIC/R-3/61, Jul 61. (TOP SECRET NPIC. NPIC/R-5/61, Sep 61. (TOP SECRET NPIC. NPIC/B-27/61, Sep 61. (TOP SECRET CIA. Report, 16 Mar 61. (CONFIDENTIAL)	,000. (SECRET)

TH 0747-62KH 4 Pages 1 January 1962

NAME: Smorgon

NO: II-S-3

LOCATION: Launch Site (54-31-35N 26-17-20E)

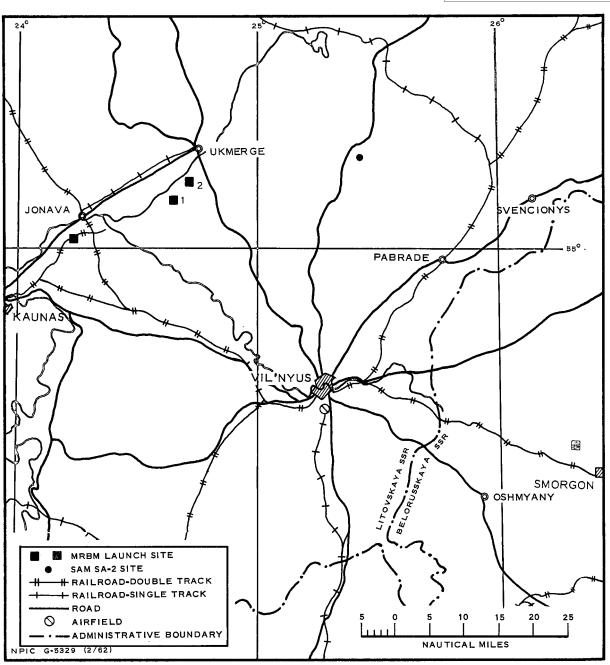


FIGURE 1. LOCATION OF THE SMORGON MRBM LAUNCH SITE.

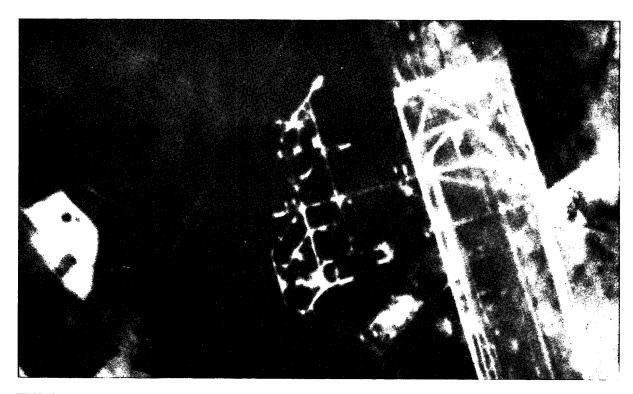
I. Conclusions

Smorgon is a confirmed MRBM launch site.

II. Background

A. Photographic Evidence

A single MRBM launch site has been identified from KEYHOLE photography of August-September 1961 4.7 nm northwest of Smorgon and near the village of Malyulyany (Figure 1). This launch site, which has four pads arranged in an offset linear configuration, is in a wooded area adjacent to an abandoned airfield (Figure 2). The launch site appears to be either in the latter stages of construction or complete. It is road served and is connected with a small support area 0.5 nautical miles to the east.



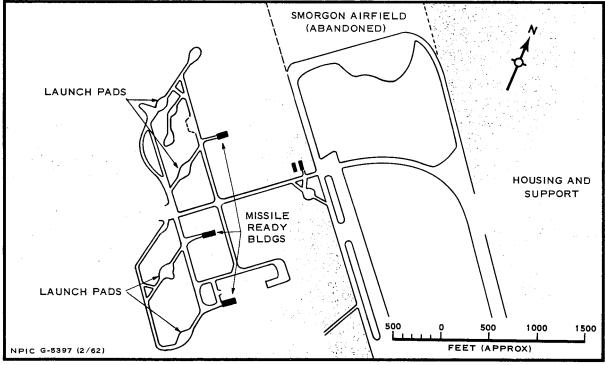


FIGURE 2. SMORGON LAUNCH SITE.

Sanitized Copy Approved for Release 2011/05/10 : CIA-RDP78T04757A000100010002-6	25 X 1
TH 0747-62KH II-S-3	
	25X1
•	
•	
REFERENCES	
MAPS OR CHARTS	
USATC. Series 200, Sheet 0168-8A, 2nd ed., Feb 59, Scale 1:200,000. (SECRET)	
DOCUMENTS	
NPIC. NPIC/R-3/61, Jul 61. (TOP SECRET	25 X
NPIC. NPIC/R-5/61, Sep 61. (TOP SECRET	
	25X ²
NSA. 3/O/RUJ/R25-61, 21 Aug 61. (TOP SECRET	25 X ′
NSA. 3/O/RUJ/R26-61, 21 Aug 61. (TOP SECRET	

TH 0747-62KH 6 Pages 1 January 1962

NAME: Sovetsk NO: II-S-4

LOCATION: Launch Site No 1 (54-58-30N 21-28-50E)

Launch Site No 2 (54-58-30N 21-36-30E)

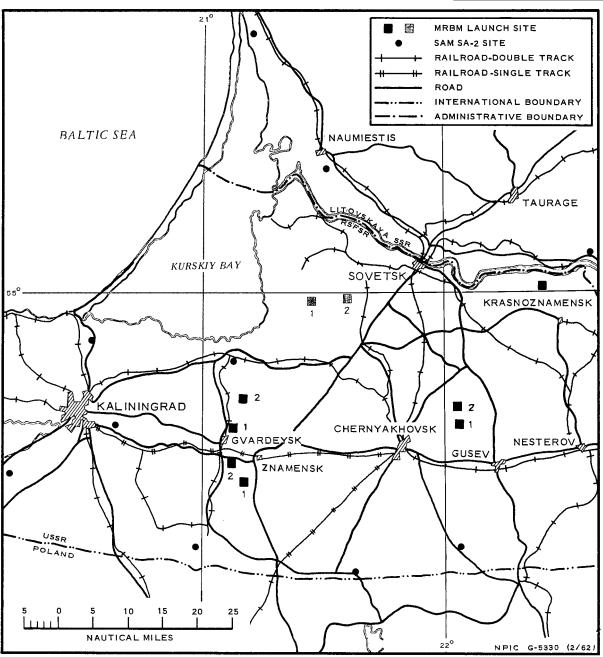


FIGURE 1. LOCATION OF THE SOVETSK MRBM LAUNCH COMPLEX.

I. Conclusions

Sovetsk is a confirmed MRBM launch complex.

II. Background

A. Photographic Evidence

The Sovetsk MRBM launch complex was identified on KEYHOLE photography of June, August-September, and December 1961 (Figure 1). Launch Site No 1 is located in a forest 17 nm southwest of Sovetsk and 22 nm north-northwest of Chernykhovsk. The completed launch site has four launch pads placed in a northwest-southeast line. Each pad is served from the northeast by one of four parallel roads. The cleared area in the forest for each launch pad is 210 feet across. Drive-through buildings measuring about 210 by 110 feet, are located 400 feet from each launch pad (Figure 2).

The main access road serving the launch area enters from the northeast and splits the pads into two pairs, 680 feet apart. The pads in each pair are 535 feet apart. A possible drive-through building is located to the rear of the launch pads and on the south side of the main access road. Three buildings, 160 by 55 feet, are on the north edge of the main access road. A group of nine buildings, which may be for housing and support of personnel involved in operations at the area, is situated north of the launch pads.

Launch Site No 2 (Figure 3) has been confirmed in a forest 5 nm east of the launch site described above. It appears to have an almost identical configuration as that of Site No 1, although not as much detail is discernible. The road layout and measurable features are the same and the area appears to be completed.



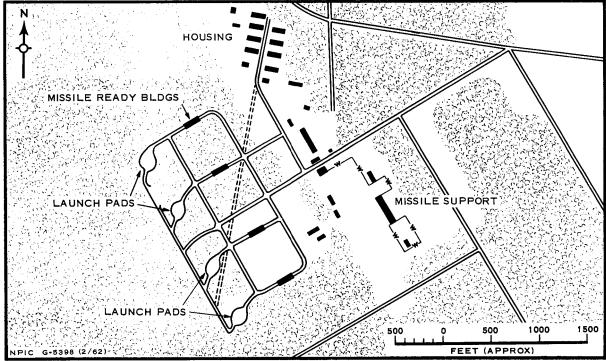


FIGURE 2. SOVETSK LAUNCH SITE NO 1.





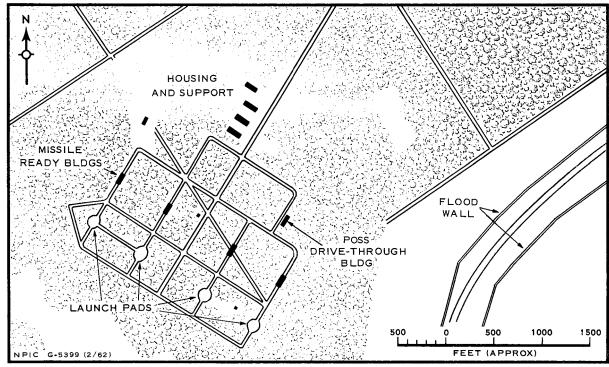


FIGURE 3. SOVETSK LAUNCH SITE NO 2.

Sanitized Copy Approved for Release 2011/05/10 : CIA-RDP78T04757A000100010002-6 TOP SECRET	25 X 1
TH 0747-62KH II-S-4	
REFERENCES	
MAPS OR CHARTS USATC. Series 200, Sheet 0168-6A (Prov.), 1st ed. (Prov), Apr 57, Scale 1:200,000. (SECRET)	
DOCUMENTS	
NPIC. NPIC/R-3/61, Jul 61. (TOP SECRET	25X1
NPIC. NPIC/R-5/61, Sep 61. (TOP SECRET	
NPIC. NPIC/B-27/61, Sep 61. (TOP SECRET	25 X 1
Air. IR-1424886, 23 Mar 60. (CONFIDENTIAL	25X1 25X1
Air. IR-1471326, 25 Apr 61. (CONFIDENTIAL)	
Air. IR-1211194, 2 Dec 58. (CONFIDENTIAL	25X1 25X1

NSA. 3/O/RUJ/R5-61, 8 Feb 61. (TOP SECRET

Sanitized Copy Approved for Release 2011/05/10 : CIA-RDP78T04757A000100010002-6

T

TH 0747-62 5 Pages 1 January 1962

NO: II-T-1 NAME: Torva

Launch Site No 1 (57-56-00N 26-04-30E) LOCATION:

Launch Site No 2 (57-59-20N 26-05-30E)

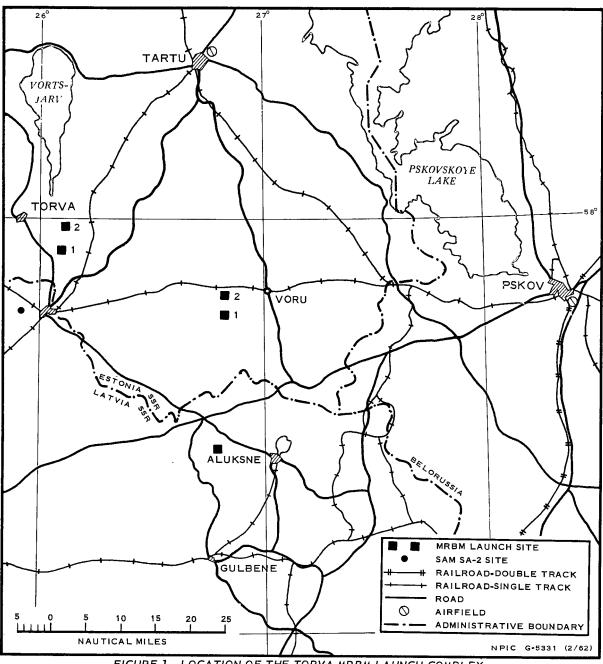


FIGURE 1. LOCATION OF THE TORVA MRBM LAUNCH COMPLEX.

- 1 -

TOP SECRET

I. Conclusions

Torva is a confirmed MRBM launch complex.

II. Background

A. Photographic Evidence

The Torva MRBM launch complex was confirmed in KEYHOLE photography of August-September 1961. It consists of two launch sites, a main support area, and checkout and housing areas (Figure 1).

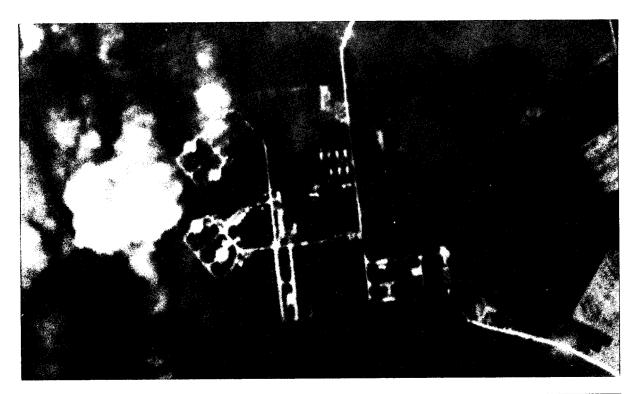
Launch Site No 1 is located about 6 nm southeast of Torva (Figure 2). It has four launch pads separated into two distinct pairs. The pairs of pads are connected by good roads to a large local support area comprised of an estimated 18 buildings. The buildings range in size from 50 by 30 feet to 360 by 155 feet and include a drive-through building. The larger buildings are unusual in size when compared with other MRBM sites.

Launch Site No 2 is located 4.8 nm east-southeast of Torva and consists of four launch pads arranged in an irregular pattern (Figure 3).

A main support area is located midway between the launch sites and is connected to both by a good access road. This area contains about 12 rather small buildings ranging in size from 25 by 25 feet to 55 by 35 feet. On the main north-south rail line, about 5 nm east-southeast of the support area, is a rail siding which may be associated with the launch complex. A probable barracks area which contains at least ten buildings is located one nm north of the main support area.

One unusual feature of this launch complex is an apparent storage area, 4,200 by 3,200 feet, consisting of about 15 buildings ranging in size from 25 by 25 feet to 500 by 200 feet. It is located 1.6 nm south-southwest of Launch Site No 1.

A SAM site has been identified 14.5 nm northwest of the main support area.



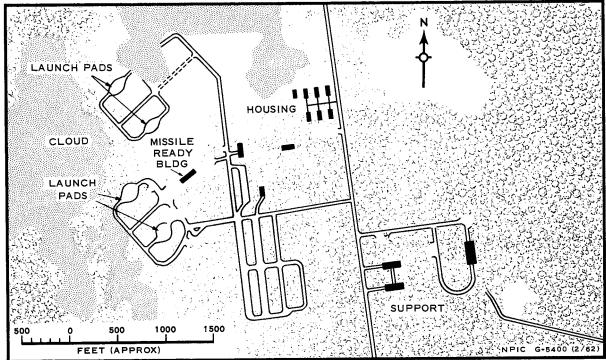
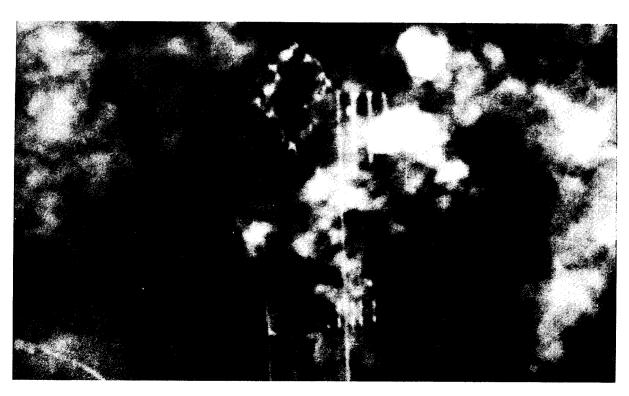


FIGURE 2. TORVA LAUNCH SITE NO 1.



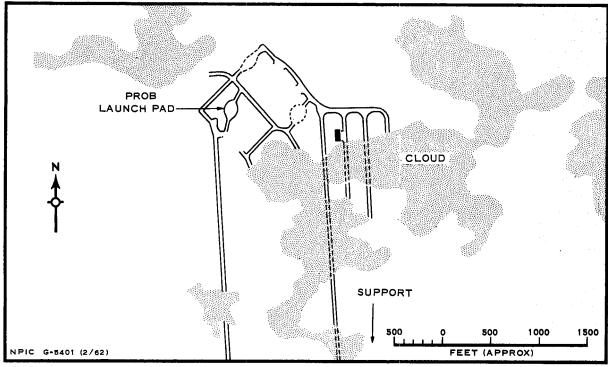


FIGURE 3. TORVA LAUNCH SITE NO 2.

Sanitized Copy Approved for Release 2011/05/10 : CIA-RDP78T04757A000100010002-6 TOP SECRET	25
TH 0747-62KH II-T-1	
	25
REFERENCES	
MAPS OR CHARTS	
USATC. Series 200, Sheet 0153-12AL, 2nd ed., Aug 60, Scale 1:200,000. (SECRET)	
DOCUMENTS	
NPIC. NPIC/R-3/61, Jul 61. (TOP SECRET	25
NPIC. NPIC/R-5/61, Sep 61. (TOP SECRET	
Air. IR-1423723. 29 Dec 60. (CONFIDENTIAL	25
Air. IR-1471400, 27 Apr 61. (CONFIDENTIAL)	

Sanitized Copy Approved for Release 2011/05/10 : CIA-RDP78T04757A000100010002-6

U

TH 0747-62KH 5 Pages 1 January 1962

NAME: Ukmerge

NO: II-U-1

LOCATION: Launch Site No 1 (55-08-00N 24-38-30E)

Launch Site No 2 (55-11-10N 24-42-30E)

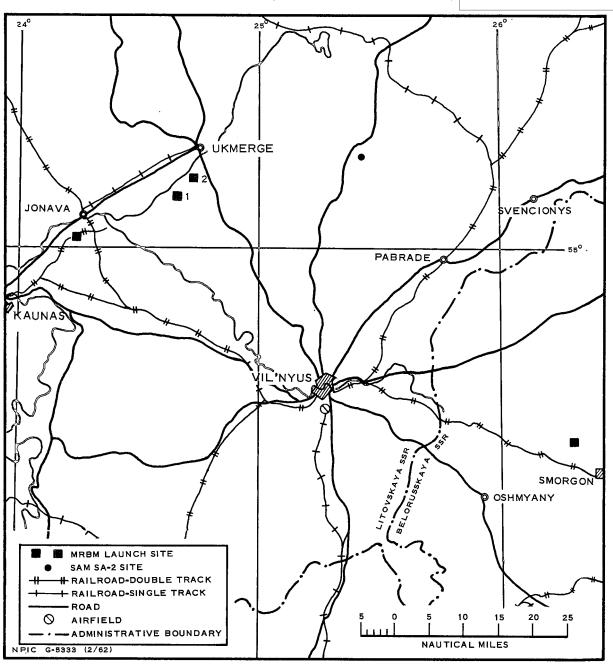


FIGURE 1. LOCATION OF THE UKMERGE MRBM LAUNCH COMPLEX.

I. Conclusions

Ukmerge is a confirmed MRBM launch complex.

II. Background

A. Photographic Evidence

The Ukmerge MRBM launch complex, identified on KEYHOLE photography of September and December 1961, comprises two "inline" launch sites located in a wooded area on the southeast side of the Sventoii River approximately 8 nm southwest of Ukmerge (Figure 1). Launch Site No 1, (Figure 2) has four pads with associated ready-buildings and adjacent support facility. Similiarily, this launch site has an additional support area approximately 1,500 feet to the southeast. The northernmost site, Launch Site No 2 (Figure 3) has four pads, an immediate support facility, and an additional support area, which is situated about 1 nm northeast of the support facility. Both launch sites are connected by a good road to Ukmerge.



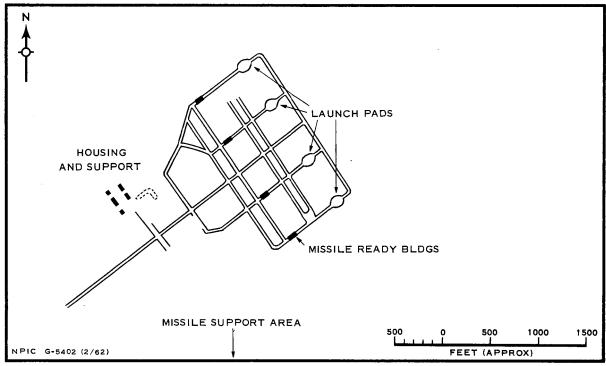


FIGURE 2. UKMERGE LAUNCH SITE NO 1.

TH 0747-62KH II-U-1



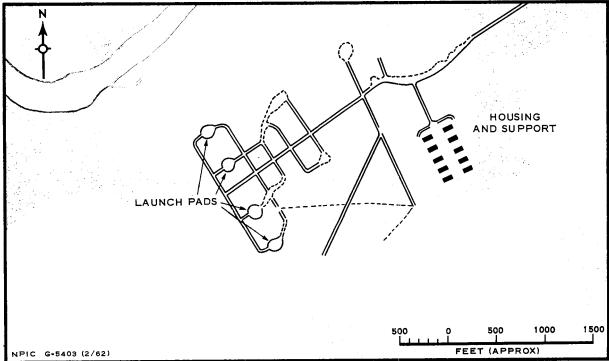


FIGURE 3. UKMERGE LAUNCH SITE NO 2.

Sanitized Copy Approved for Release 2011/05/10 : CIA-RDP78T04757	′A000100010002-6	25 X 1
	TH 0747-62KH II-U-1	
REFERENCES		
MAPS OR CHARTS		
USATC. Series 200, Sheet 0168-8A, 2nd ed, Feb 59, Scale 1:200,000.(SEC	RET)	
DOCUMENTS		
NPIC. OAK 9022, Pt. 2, 20 Sep 61.(TOP SECRET		25
NPIC. OAK 9029, Supplement 8, 4 Jan 62. (TOP SECRET		25 X 1
		25 V 1

Sanitized Copy Approved for Release 2011/05/10 : CIA-RDP78T04757A000100010002-6 TOP SECRET |

TH 0747-62KH 6 Pages 1 January 1962 25X1

25X1

NAME: Uman' NO: II-U-2

LOCATION: Launch Site No 1 (48-53-40N 30-27-45E)

Launch Site No 2 (48-57-45N 30-24-00E)

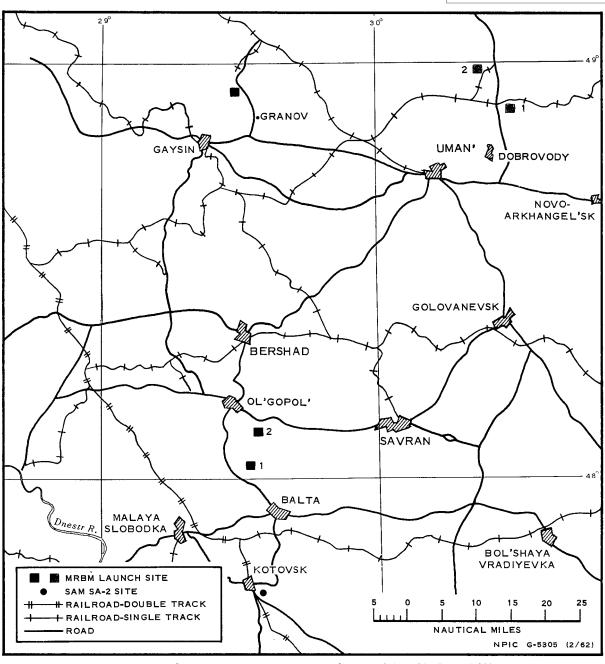


FIGURE 1. LOCATION OF THE UMAN' MRBM LAUNCH COMPLEX.

- 1 -

I. Conclusions

Uman' is a confirmed MRBM launch complex.

II. Background

A. Photographic Evidence

The Uman' MRBM launch complex was identified on KEYHOLE photography of August-September 1961 (Figure 1).

Uman' MRBM Launch Site No 1 is located in a wooded area 15 nm northeast of Uman' and 7 nm north-northeast of Dobrovody (Figure 2).

This site consists of four launch pads, 200 feet in diameter, grouped in pairs and arranged in a modified rectangular pattern. They appear to be interconnected by a series of roads which lead to support and housing areas which are still under construction. A clearing for a drive-through building exists on the road connecting each pair of pads.

The site is located within 2 nm of a railroad and within one nm of an existing road. The site is road served.

There is no evidence of a fence around the site. No SAM sites have been located in the vicinity.

Launch Site No 2 is a rectangular-type launch site located 14.5 nm north-northeast of Uman' and 11.2 nm north of Dobrovody (Figure 3). It is 4.7 nm northwest of Launch Site No 1. This site consists of four pads with a large ready building located between each pair of pads. A support area, located to the south of the launch area, contains a loop road with a drive-through building, two large buildings with a possible apron at one end, and several cleared areas which may possibly contain buildings. The launch site, like Launch Site No 1, is road served.

TH 0747-62KH II-U-2



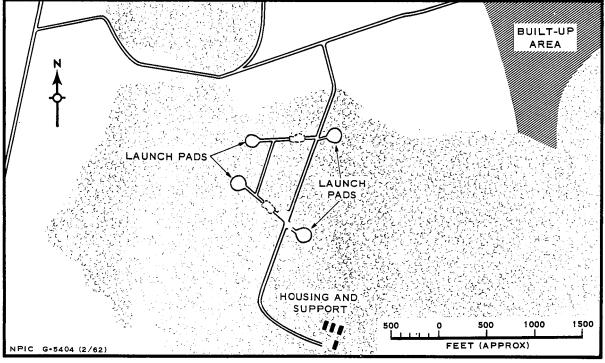
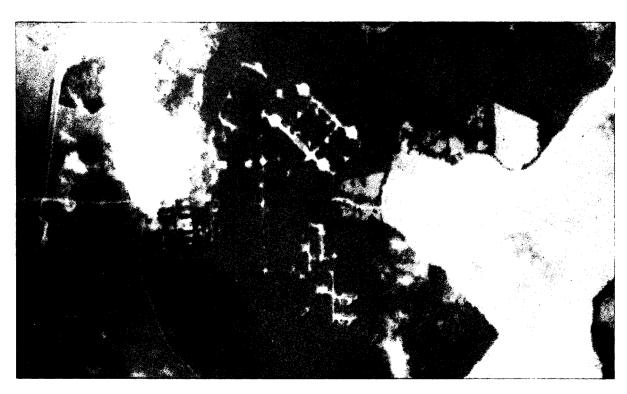


FIGURE 2. UMAN' LAUNCH SITE NO 1.



TH 0747-62KH II-U-2



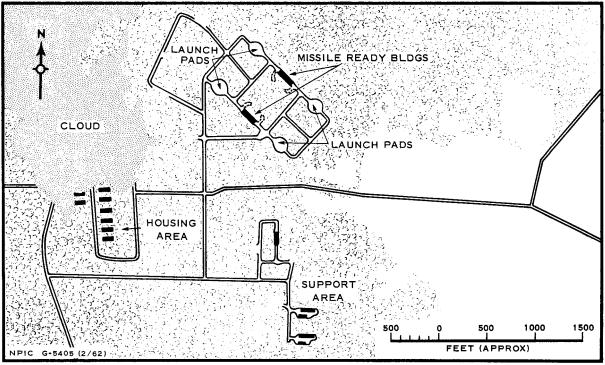


FIGURE 3. UMAN' LAUNCH SITE NO 2.

Sanitized	Copy Approved for Release 2011/05/10 : CIA-RDP78T04757A000100010002-6 **TOP SECRET	25X′
TH 0747- II-U-2	-62KH	
		25X1
	REFERENCES	
MAPS OR C	HARTS	
	Series 200, Sheet 0233-18A, 2nd ed., Jun 58, Scale 1:200,000. (SECRET)	
USATC.	Series 200, Sheet 0233-19A, 2nd ed., Jun 58, Scale 1:200,000. (SECRET)	
USATC.	Series 200, Sheet 0233-23A, 1st ed., Oct 57, Scale 1:200,000. (SECRET)	
DOCUMENT	'S	
NPIC.	NPIC/R-3/61, Jul 61. (TOP SECRET	25X1 25X1
NSA.	3/O/RUGM/T118-59, 20 Dec 58. (TOP SECRET	
NSA.	3/O/RUJ/R9-59, 20 Dec 58. (TOP SECRET	25X1 25X1
	3R/O/RUY/T73-59, 30 Oct 58. (TOP SECRET)	20/
NSA.		
NSA.	3/U/RU/R27-61, 29 Jun 61. (TOP SECRET	25X1 25X1

TH 0747-62KH 5 Pages 1 January 1962

NAME: Usovo

LOCATION: Launch Site No 1 (51-16-50N 28-15-00E)

Launch Site No 2 (51-19-00N 28-11-00E)

PETRIKOV

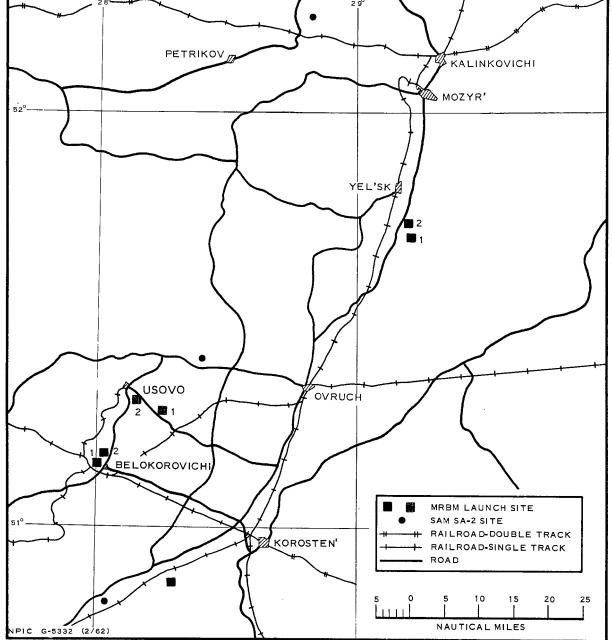


FIGURE 1. LOCATION OF THE USOVO MRBM LAUNCH COMPLEX.

TH 0747-62KH II-U-3

I. Conclusions

Usovo is a confirmed MRBM launch complex.

II. Background

A. Photographic Evidence

The Usovo MRBM launch complex was identified on KEYHOLE photography of June and August-September 1961 (Figure 1).

Usovo MRBM Launch Site No 1 is located in a wooded area 20 nm west of Ovruch and 6 nm east-southeast of Usovo. The site consists of launch pad areas about 200 feet in diameter, arranged in a rectangular pattern (Figure 2). The launch pads are interconnected by a series of roads on which there are drive-through buildings. The site also has a probable housing and support area. Construction of the entire site appears to be complete. The site is located within 5 nm of a railroad, and an existing road leads to the railroad; however, there is no evidence of off-loading facilities constructed near the point where the road intersects the railroad.

Launch Site No 2 is located about 5 nm north-northwest of the site described above (Figure 3). This site was not visible on (June 1961) because of cloud cover but was located on of August 1961. The launch site when completed, will probably contain four launch pads in a rectangular pattern.* To the east of the pad area are clearings. Access to the launch area appears to be limited to a single road extending southeast from the installation and connecting with the Usovo-Lipniki road. The site does not appear to be rail served although there is a rail line within 2 miles to the north and west.

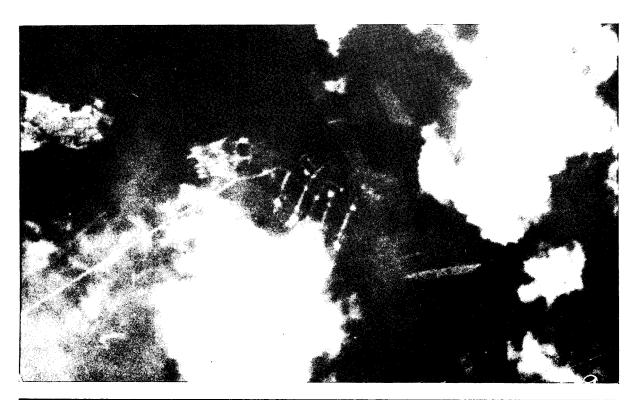
A SAM site is located about 12 nm northeast of the complex and probably is a part of the air defense system protecting this and other sites in the area.

- 2 -

25X1

^{*}Measurements of the scarred area for the four launch pads are 180 to 230 feet in diameter, plus

TH 0747-62KH II-U-3



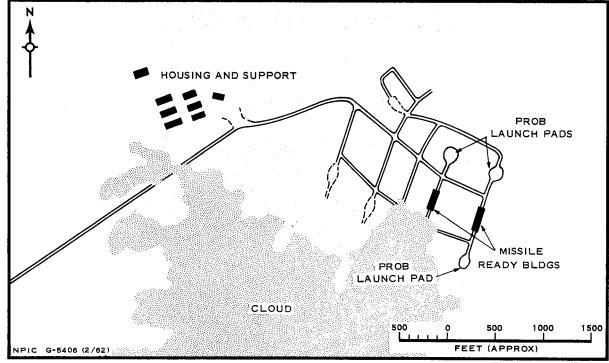
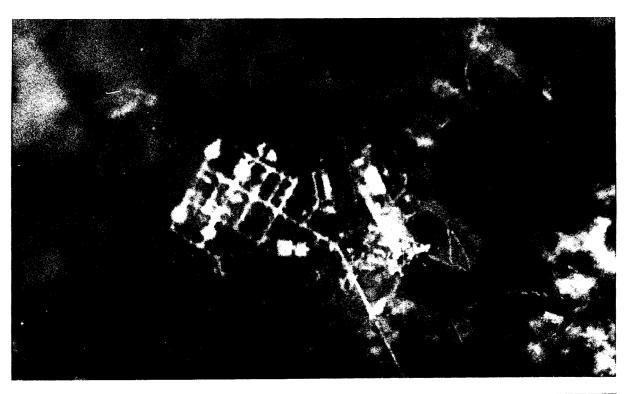


FIGURE 2. USOVO LAUNCH SITE NO 1.

TH 0747-62KH II-U-3



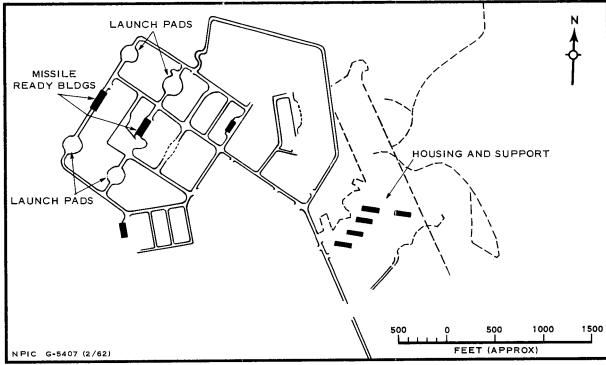


FIGURE 3. USOVO LAUNCH SITE NO 2.

S	Sanitized Copy Ap	proved for TOP	Release 20 SECRET	011/05/10 : 	CIA-RDP7	8104/5/	4000100010 	0002-6	25
							TH 0747 II-U -3	′-62KH	
									25
				REFERENC	ES				
	MAPS OR CHARTS	3		REFERENC	ES				
	MAPS OR CHARTS					50 , 000. (U	nclassifiei	D)	
	AMS. Series N					50 ,0 00. (U	NCLASSIFIEI	D)	
	AMS. Series N	501, Sheet N	M35-3, Ed. 4	-AMS, Dec 5		50 ,0 00. (U	NCLASSIFIEI	D)	
	AMS. Series N DOCUMENTS NPIC. NPIC/F	501, Sheet N R-3/61, Jul 6	M35-3, Ed. 4	CRET		50,000. (U	N CLASSIFIEI	D)	25
	AMS. Series N DOCUMENTS NPIC. NPIC/F	501, Sheet N R-3/61, Jul 6 R-5/61, Sep 6	M35-3, Ed. 4 1. (TOP SE	CRET		50,000. (U	n CLASSIFIEI	D)	
	AMS. Series N DOCUMENTS NPIC. NPIC/F	501, Sheet N R-3/61, Jul 6 R-5/61, Sep 6 B-27/61, Sep	M35-3, Ed. 4 1. (TOP SE 31. (TOP SE 61. (TOP S	CRET CRET	8, Scale 1:2!	50,000. (U	N CLASSIFIEI	D)	25

TH 0747-62KH 5 Pages 1 January 1962

NAME: Voru NO: II-V-1

LOCATION: Launch Site No 1 (57-45-40N 26-47-20E)

Launch Site No 2 (57-49-10N 26-50-30E)

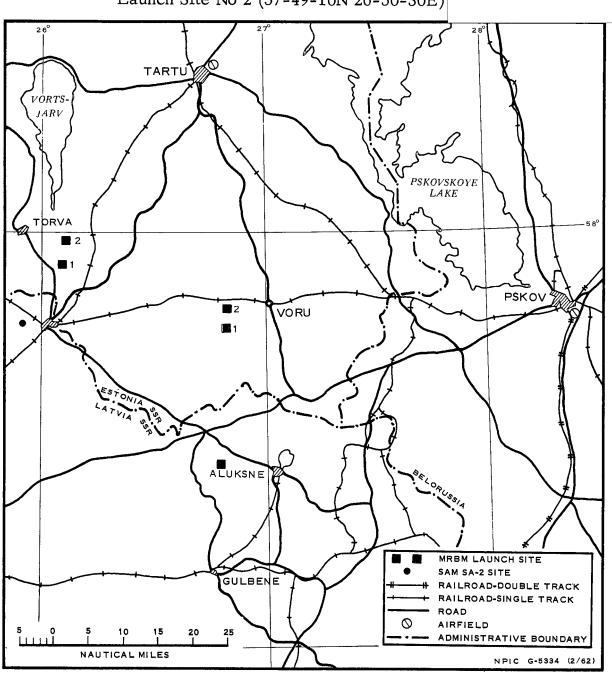


FIGURE 1. LOCATION OF THE VORU MRBM LAUNCH COMPLEX.

TH 0747-62KH II-V-1

I. Conclusions

Voru is a confirmed MRBM complex.

II. Background

A. Photographic Evidence

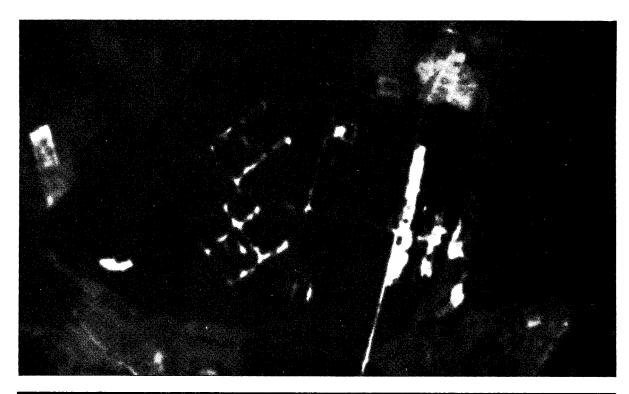
The Voru MRBM launch complex was identified on KEYHOLE photography of August-September 1961 (Figure 1).

Launch Site No 1 is located in a stand of timber 8 nm southwest of Voru (Figure 2). The four pads are grouped in two pairs that are aligned in a northwest-southeast direction. The pairs are offset from a straight line by a distance of 787 feet. When completed, the pads will be served by a wide-radius-turn road system. The site appeared to be in the mid-stage of construction in photography of August 1961. A possible indication of security fencing is evident along the east border of the launch site. A support area is located just east of the access road. The Riga-Pskov single-track railroad passes 4 nm to the north.

Launch Site No 2 is located 5.5 nm north-northeast of the site described above (Figure 3). The four pads are also grouped in two pairs but are offset from a straight line by only Quality of photography prevents positive identification of all facilities. Cleared areas indicate that the pad diameters will be approximately 70 feet. The launch site is enclosed by a security fence. A support facility consisting of at least 11 buildings is located just east of the access road. The Riga-Pskov railroad passes one nm to the north of the site.

25X1

TH 0747-62KH II-V-1



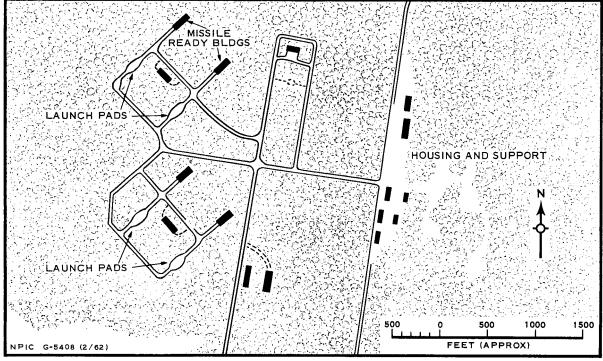


FIGURE 2. VORU LAUNCH SITE NO 1.

TH 0747-62KH II-V-1



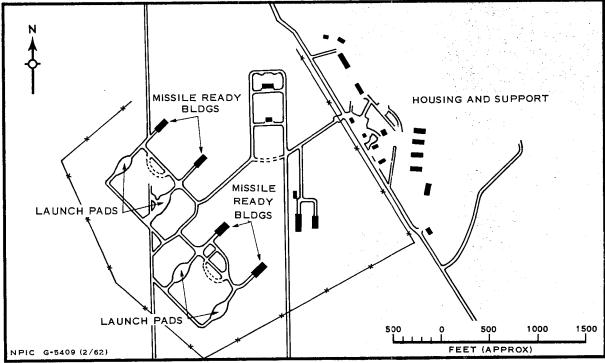


FIGURE 3. VORU LAUNCH SITE NO 2.

Sanitized Copy Approved for Release 2011/05/10 : CIA-RDP78T04757A000100010002-6	25 X 1
TH 0747-62KH II-V-1	
	25X1
• ———	
REFERENCES	
MAPS OR CHARTS	
USATC. Series 200, Sheet 0153-13AL, 2nd ed., Jan 60, Scale 1:200,000. (SECRET)	
DOCUMENTS	
NPIC. OAK 9023, 8 Sep 61. (TOP SECRET	25X1
Air. IR-1423723, 29 Dec 60. (SECRET)	25X1 25X1
Air. IR-1471400, 27 Apr 61. (CONFIDENTIAL)	

W

Y

TH 0747-62KH 5 Pages 1 January 1962

NAME: Yel'sk NO: II-Y-1

LOCATION: Launch Site No 1 (51-42-00N 29-12-50E)

Launch Site No 2 (51-43-55N 29-12-50E)

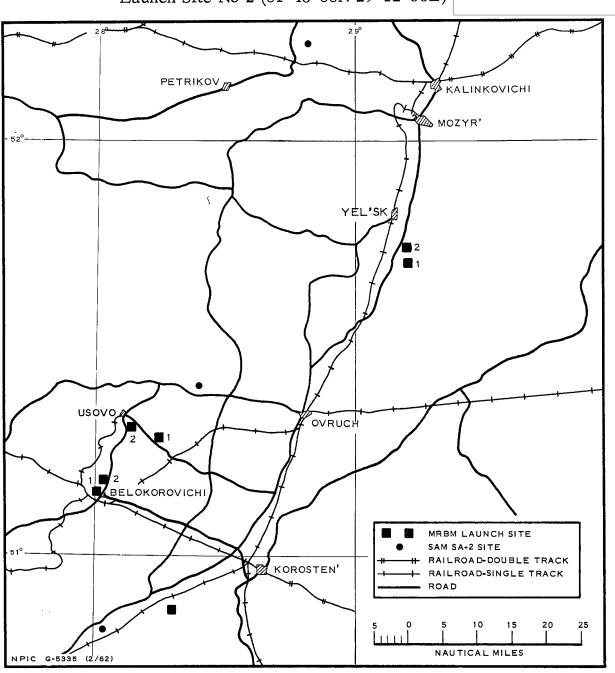


FIGURE 1. LOCATION OF THE YEL'SK LAUNCH COMPLEX.

- 1 -

TOP SECRET

TH 0747-62KH II-Y-1

I. Conclusions

Yel'sk is a confirmed MRBM launch complex.

II. Background

A. Photographic Evidence

The Yel'sk MRBM launch complex, identified on KEYHOLE photography of June 1961, is located in wooded areas in the vicinity of Yel'sk (Figure 1). Launch Site No 1 is located 7 nm south of Yel'sk and 2 nm south of Launch Site No 2. Site No 2 is 5 nm south of Yel'sk (Figures 2 and 3).

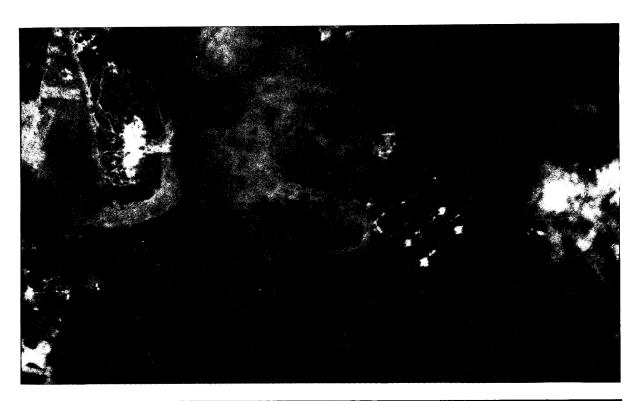
Both sites are nearly identical in construction. They consist of four launch pad areas, 200 feet in diameter, arranged in a rectangular pattern measuring 900 by 535 feet. The launch pads are connected by a series of roads which also lead to a probable support and housing area. The buildings in the support and housing area appear to be of permanent construction. Site No 1 appears to be under construction whereas Site No 2 is either complete or in a late stage of construction.

These sites are interconnected by a specially constructed road. Another road leaves the main Ovruch-Mozyr' highway and runs east, meeting the interconnecting road at a point midway between the launch sites. Seven nm south-southwest of the point where this road leaves the highway is a possible missile-related rail-to-road transfer point served by wide-radius-turn roads. This apparent transfer point is located at coordinates 51-35-30N 29-30-00E.

Both sites appear to be secured by a fence. There is no evidence of any SAM sites within 30 nm of these MRBM sites.

25X1

TH 0747-62KH II-Y-1



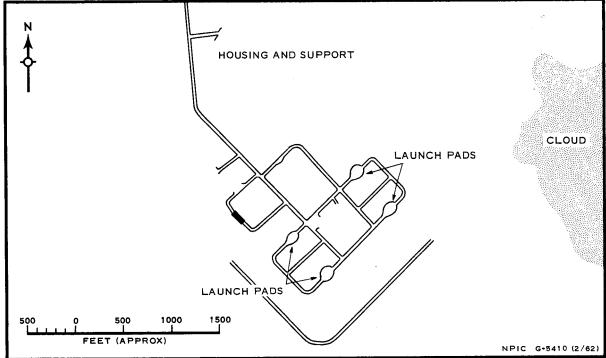


FIGURE 2. YEL'SK LAUNCH SITE NO 1.

TH 0747-62KH II-Y-1



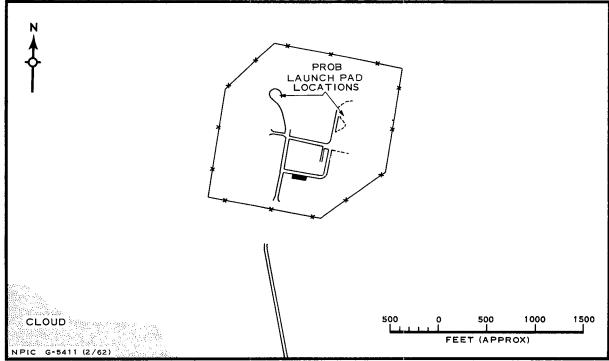


FIGURE 3. YEL'SK LAUNCH SITE NO 2.

Sanitized Copy A	pproved for Release 20 TOP SECRET	11/05/10 : CIA-RDP78 ⁻	T04757A000100010002-6	25
			TH 0747-62KH II-Y-1	
				25
		_ •		
		REFERENCES		
MAPS OR CHART	rs			
USATC. Ser	ies 200, Sheet 0233-3A, 2n	d ed., Aug 58, Scale 1:20	0,000. (SECRET)	
DOCUMENTS				
	C/R-3/61, Jul 61. (TOP SE	CCRET		2
NSA. 3/O/F	RUM/T33-60, Oct 60. (TOP	SECRET		2
NSA. 3/O/F	RUGM/R76-60, 2 Mar 60. (7	TOP SECRET		2
				2

TH 0747-62KH 5 Pages 1 January 1962

NAME: Znamensk

NO: II-Z-2

LOCATION: Launch Site No 1 (54-32-50N 21-12-00E)

Launch Site No 2 (54-35-40N 21-08-40E)

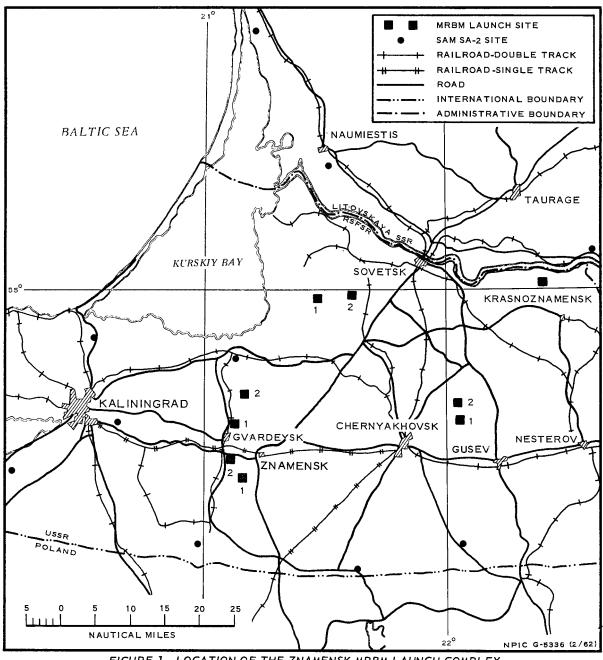


FIGURE 1. LOCATION OF THE ZNAMENSK MRBM LAUNCH COMPLEX.

-1-

TOP SECRET

Sanitized Copy Ap	proved	for Release	2011/05/10:	CIA-RDP78	T04757A0	00100010	0002-6
T	OP	CECRET					

TH 0747-62KH II-Z-2

I. Conclusions

Znamensk is a confirmed MRBM launch complex.

II. Background

A. Photographic Evidence

The Znamensk MRBM launch complex was confirmed on KEYHOLE photography of June 1961 (Figure 1).

Launch Site No 1 is located in a heavily wooded area about 4 nm southwest of Znamensk and 22 miles west-southwest of Chernyakhovsk (Figure 2). The linear configuration is unmistakably similar to other MRBM launch sites of similar configuration confirmed in the Baltic area. The positioning of buildings and the distances between roads are the same as other sites of this type. Although the launch pads cannot be identified, there appears to be a dark area in the center of each scarred area. The pattern of parallel roads indicates that they are arranged in a northwest-southeast direction. It is believed that the site was in mid-stage construction at the time of the June photography, but was completed by December 1961

Launch Site No 2 has been located about 3 nm northwest of the site described above completing the complex (Figure 3). The description of this site is also applicable to Launch Site No 2.

25X1

TH 0747-62KH II-Z-2



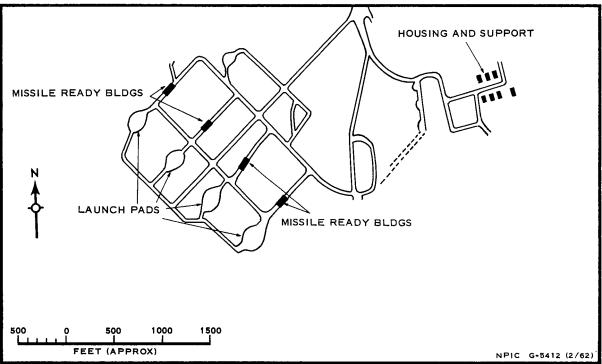
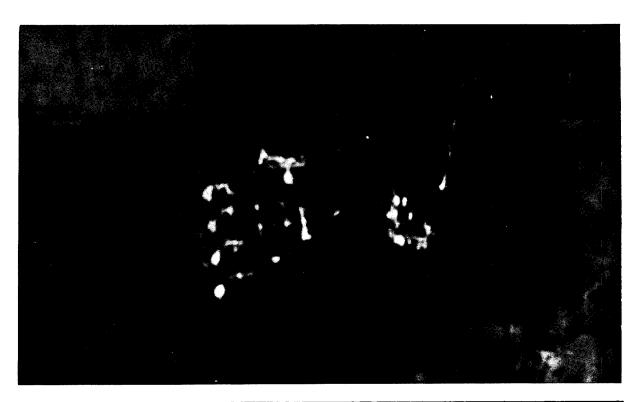


FIGURE 2. ZNAMENSK LAUNCH SITE NO 1.

TH 0747-62KH II-Z-2



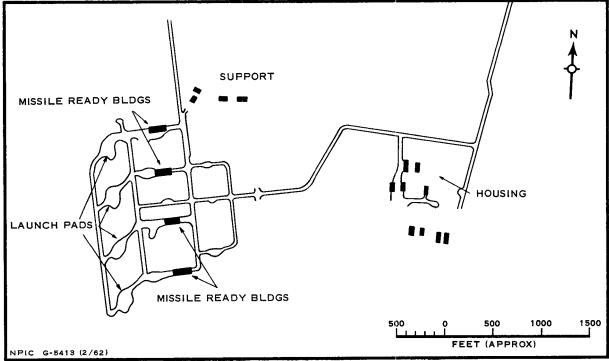


FIGURE 3. ZNAMENSK LAUNCH SITE NO 2.

Sanitized Copy Approved for Release 2011/05/10 : CIA-RDP78T04757A0001000100	
TH 0747 II-Z-2	-62KH
REFERENCES	
MAPS OR CHARTS	ECRET)
MAPS OR CHARTS USATC. Series 200, Sheet 0168-6A (Prov.), 1st ed. (Prov.), Apr 57, Scale 1:200,000. (Si	
USATC. Series 200, Sheet 0168-6A (Prov.), 1st ed. (Prov.), Apr 57, Scale 1:200,000. (Si	
USATC. Series 200, Sheet 0168-6A (Prov.), 1st ed. (Prov.), Apr 57, Scale 1:200,000. (SIDOCUMENTS	
USATC. Series 200, Sheet 0168-6A (Prov.), 1st ed. (Prov.), Apr 57, Scale 1:200,000. (SID DOCUMENTS NPIC. NPIC/R-3/61, Jul 61. (TOP SECRET	

TH 0747-62KH 3 Pages 1 January 1962

NAME: Chelkar NO: III-C-1

LOCATION: Launch Facility (48-05N 59-35E)

25X1

The Chelkar installation is a field-type, 650-nm missile launch site, designated SP-5 by the Soviets. It is apparent that the site is used for missile firings associated with the Sary Shagan antimissile-missile development program. In the same connection, this site may also be used as a troop training facility during these operations.

SP-5 (Figure 1) consists of fenced launch site with seven associated vehicle revetments, a probable communications area, and a possible baseline instrumentation or guidance facility.

Launch Site

In size and configuration, the facilities within the fenced portion of the launch site are similar to the 650- and 950-nm launch area at the Kapustin Yar facilities (Sites 1-C and 3-C). In addition, the size and location of four vehicle revetments at the SP-5 launch point are similar to those at three areas of Launch Complex "C" at Kapustin Yar.

Instrumentation or Guidance Facility

This area consists of two small, shallow revetments which probably house instrumentation or tracking equipment during launching operations.

Support Area

The support area contains nine buildings and a possible power generating station. There are no external power lines serving this installation.

TH 0747-62KH III-C-1

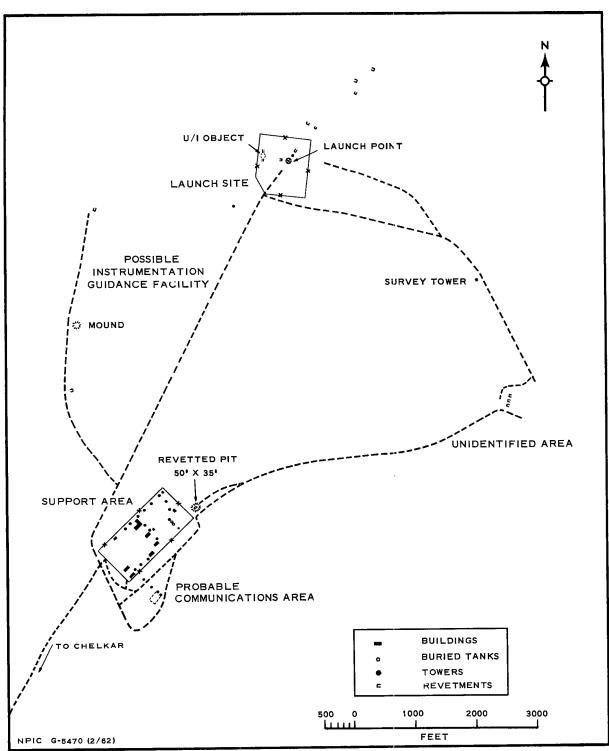


FIGURE 1. FIELD-TYPE LAUNCH FACILITY AT CHELKAR.

Sanitized Copy Ap	proved for	Release	2011/05/10 : C	CIA-RDP78T04757A00	0100010002-6
		SH(KF			

TH 0747-62KH III-C-1

Probable Communications Area

The probable communications area is located on the south side of the fenced support area. Its shape, and its proximity to the support area are similar to those of Launch Complexes "A" and "C" at Kapustin Yar.

REFERENCES

MAPS AND CHARTS

USATC. Series 200, Sheet 0236-25A, 1st ed., Oct 59, Scale 1:200,000 (CONFIDENTIAL) DOCUMENTS

CIA. TALENT Mission 8009, 5 Feb 60 (TOP SECRET AFIC. PIB/TB-61/7, Feb 61 (TOP SECRET Army. DC-216-60, Aug 60 (TOP SECRET

25X1

25X1

25X1

TH 0747-62KH 10 Pages 1 January 1962

NAME: Kapustin Yar NO: III-K-1

LOCATION: Missile Test Center (48-42N 46-00E)

25X1

The Kapustin Yar Missile Test Center (Figure 1) contains five major surface-to-surface (SSM) missile complexes ("A", "B", "C", "E", and "G"), an unguided rocket complex, and a surface-to-air missile launch complex. The SSM complexes include launch sites for short-, medium-and intermediate-range ballistic missiles.

Launch Complex "A"

This short-range ballistic missile launch complex, located at the terminus of the main road leading from Kapustin Yar, has been associated with the firings of 150- and 350-nm missiles. Associated guidance and instrumentation facilities are found at several points within the launch complex.

Launch Complex "B"

This launch complex is subdivided into three separate launch sites (1-B, 2-B, and 3-B) and a support facility. The activity at this complex has been associated with firings of high-altitude research rockets and short-range cruise missiles. The support facility is located adjacent to the launch area.

Launch Complex "C" (Figure 2)

This launch complex consists of three completed launch sites (1-C, 2-C, and 3-C) and an additional launch site (4-C) under construction. Associated instrumentation and guidance sites, a range control center with a probable communications site, checkout areas, assembly areas, and a

TH 0747-62KH III-K-1

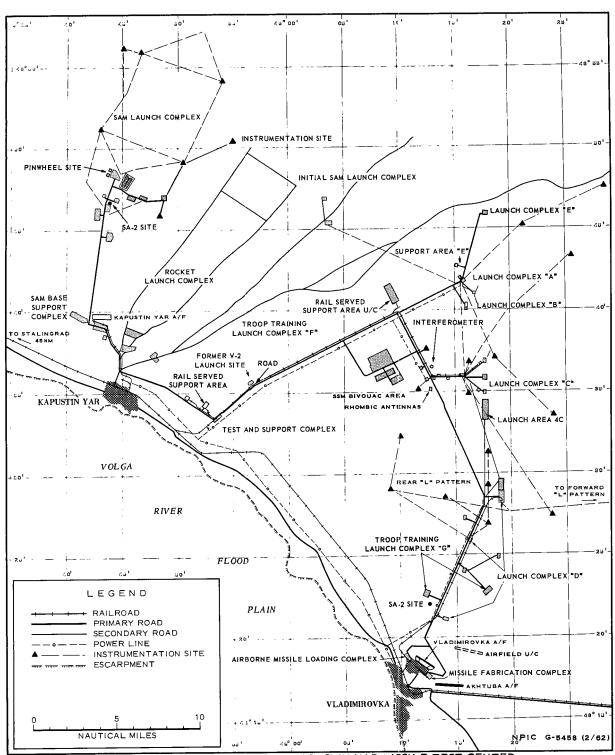


FIGURE 1. LOCATION OF THE KAPUSTIN YAR MISSILE TEST CENTER.

TH 0747-62KH III-K-1

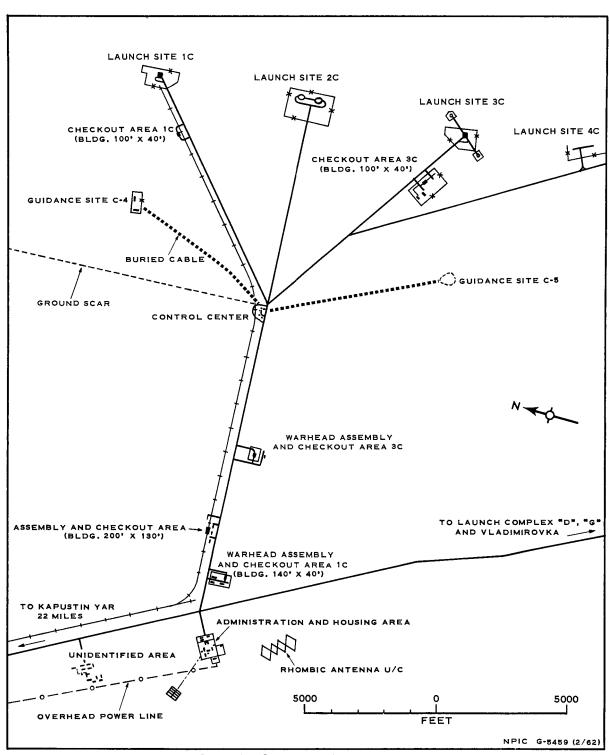


FIGURE 2. KAPUSTIN YAR LAUNCH COMPLEX C.

TH 0747-62KH III-K-1



FIGURE 3. PHOTOGRAPH OF KAPUSTIN YAR LAUNCH SITE 1-C.

TH 0747-62KH III-K-1

general support area are located in the immediate vicinity. Launch Site 1-C (Figure 3) was believed to have been used to launch the Series "63" missile to the 950 - 1,050 nm impact area. However, KEYHOLE photography now shows that the complex has been modified by the addition of a new assembly and checkout building and a rail line from the assembly and checkout area to the launch site. Launch Site 2-C (Figure 4) is the probable prototype for some of the deployed sites described in Part II of this report. At this time the specific missile system associated with Launch Site 2-C has not been positively determined. Launch Site 3-C (Figure 5) is probably used for 700-nm missile firings. It consists of a main fenced section with one launch pad and two unidentified fenced areas. These consist of two arm-like extensions which terminate at large hexagonal-shaped surfaced areas positioned approximately 1,900 feet apart.



FIGURE 4. PHOTOGRAPH OF KAPUSTIN YAR LAUNCH SITE 2-C.

TH 0747-62KH III-K-1



FIGURE 5. PHOTOGRAPH OF KAPUSTIN YAR LAUNCH SITE 3-C.

TH 0747-62KH III-K-1

Launch Complex "E" (Figures 6 & 7)

This launch complex is road served and consists of a double-fenced launch area with a large (230 by 230 feet) launch pad, and a single fenced assembly and checkout area. The type of missile fired from this installation has not been determined.

Launch Complex "G"

Launch Complex "G" contains two field training launch sites, designated 1-G and 2-G, probably for 350-nm missiles. Associated with the complex is a missile storage and handling area, a motor pool and equipment park, a transloading area, and a housing area. The only secured facility is the missile storage and handling area.

- 7 -

25X1

TH 0747-62KH III-K-1

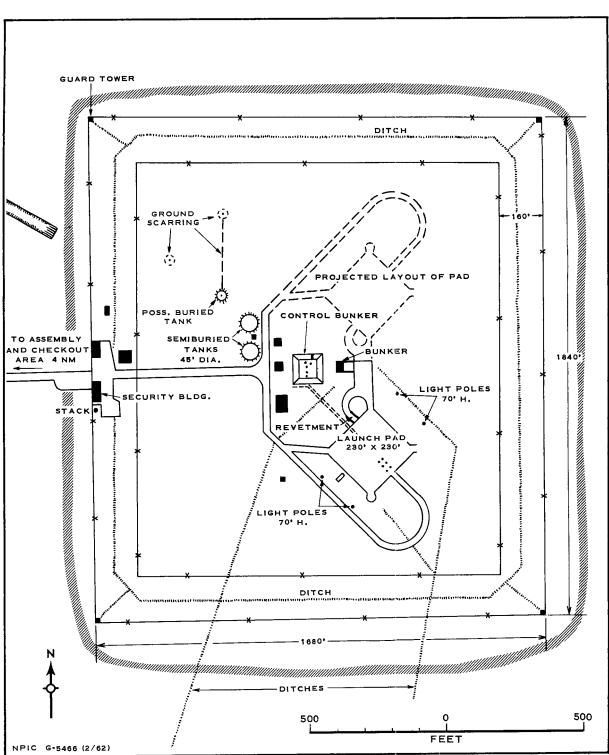


FIGURE 6. KAPUSTIN YAR LAUNCH COMPLEX E.

TH 0747-62KH III-K-1



FIGURE 7. PHOTOGRAPH OF KAPUSTIN YAR LAUNCH COMPLEX E.

Sanitized Copy Approved for Release 2011/05/10: CIA-RD	P78T04757A000100010002-6	
TOP SECRET		

TH 0747-62KH III-K-1

REFERENCES

MAPS AND CHARTS

USATC Series 200, Sheet 0235-22A, 2nd ed., Feb 60, Scale 1:200,000. (SECRET)

DOCUMENTS

NPIC. NPIC/R-8/61, Oct 61. (TOP SECRET	25 X 1
Army. TAK-270-61, Apr 61 (TOP SECRET	25 X 1
NSA. 3/O/RUJ/R11-57, 1957 (TOP SECRET	25 X 1
NSA. 3/O/RUJ/R24-57, 1957 (TOP SECRET	
NSA. 3/O/RUM/R15-56 (TOP SECRET	25 X 1
NSA. 3/O/RUM/R14-58, 1958 (TOP SECRET	25 X 1
NSA. 3/O/RUGM/R102-56, 1956 (TOP SECRET	25 X 1
NSA. 3/O/RUGM/R194-59, 1959 (TOP SECRET	
NSA. 3/O/RUY/R42-56, 1956 (TOP SECRET	25 X 1
NSA. 3/O/RUY/R56-56, 1956 (TOP SECRET	
NSA. 3/O/RUY/R28-57, 1957 (TOP SECRET	
	25X1
Air. SPIR57-10, Sep 57 (TOP SECRET	25 X 1
Air. DPIR T-58-34, Sep 58. (TOP SECRET	25 X 1
Air. DPIR T-59-23, Oct 59. (TOP SECRET	25 X 1
Air. SAC. DPIR SP-57-9, Dec 57 (TOP SECRET	25 X 1
CIA. PIC/JR-4/58, Sep 58 (TOP SECRET	25 X 1
CIA. PIC/JR-2/60, Feb 60 (TOP SECRET	
	25 X 1

Sanitized Copy Approved for Release 2011/05/10 : CIA-RDP78T04757A	A000100010002-6	25X1
	TH 0747-62KH 4 Pages 1 January 1962	
NAME: Makat (47-40N 53-14E) LOCATION: Launch Facility (48-02N 53-41E)	NO: III-M-1	25 X 1
KEYHOLE photography of revealed the site 27 nm northeast of Makat (Figure 1). The probable SSM launch site at this facility consilaunch point and two possible bunkers or revetments villaunch point (Figure 2). The site is from the Makat FLIM FLAM Station, 6.7 nm to the support facilities of the FLIM FLAM station and the probably support the site. Increased activity and enlarge since December 1960 are observed. The launch point is at a distance of 6,500 feet on degrees from the probable guidance site, which appears rectangular area within a circular clearing. Two is roads, connect the probable guidance site with the probable of the probable guidance site with the probable area is located 3,500 feet north of the site and is seroads from the site. The other area, which is surrounded is located 1.3 nm east-southeast of the launch area at the principal road.	which are located served by a road e southeast. The e nearby airfield ement of the site an azimuth of 90 to be in a fenced scars, apparently bable launch site. Eable launch site. erved by a net of d by a firebreak,	25X1 25X1 25X1

- 1 -

TH 0747-62KH III-M-1

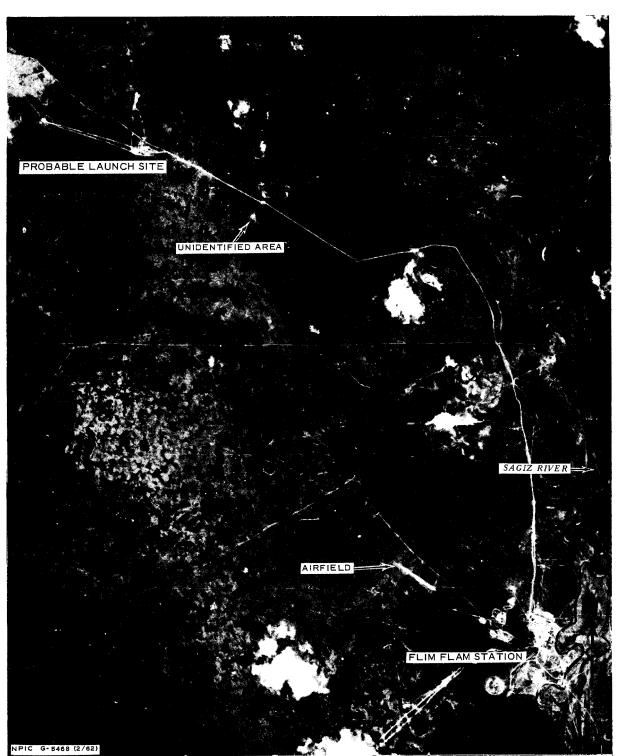


FIGURE 1. AREA OF PROBABLE LAUNCH SITE NEAR MAKAT.

TH 0747-62KH III-M-1

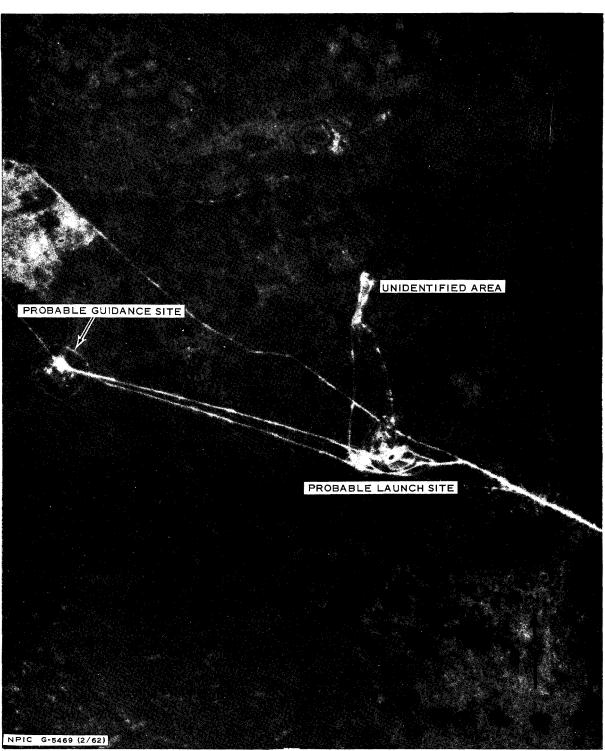


FIGURE 2. DETAIL OF PROBABLE LAUNCH SITE NEAR MAKAT.

Sanitized Copy A	for Release SECRET	2011/05/10 : CIA-RDP78T04757A	000100010002-6	25X1
TH 0747-62KH III-M-1				

REFERENCES

MAPS AND CHARTS

ACIC. USAF Pilotage Chart, Sheet 247A, 1st ed, Dec 56, Scale 1:500,000. (UNCLASSIFIED).

DOCUMENTS

CIA. PIC/JB-128/60, 22 Dec 60. (TOP SECRET	25 X 1
CIA. PIC/JR-4/61, May 61. (TOP SECRET	25 X 1
NPIC. B-20/61, Aug 61. (TOP SECRET	25 X 1
ARMY. TAK-270-61, Apr 61. (TOP SECRET	25 X 1
NSA. 3/O/RUGM/R109-61, 2 and 4 Mar 61, 10 Mar 61. (TOP SECRET	25X1
NSA. 3/O/RUGM/R255-61, 24 Jun 61, 27 Jun 61. (TOP SECRET	25 X 1

TH 0747-62KH 10 Pages 1 January 1962

NAME: Tyura Tam NO: III-T-1

LOCATION: Missile Test Center (45-55N 63-30E)

25X1

The Tyura Tam Missile Test Center (Figure 1) contains five completed launch pads for ICBMs or space vehicles, located at three complexes: "A", "B", and "C", and an additional complex ("D") which is under construction. Launch Complex "A" appears to be primarily a research and development area, whereas Launch Complex "B" may be associated with both research and development activities and operational firings. The third, Launch Complex "C", first noted under construction in April 1960 and completed in December 1960, appears to have been designed as a prototype operational

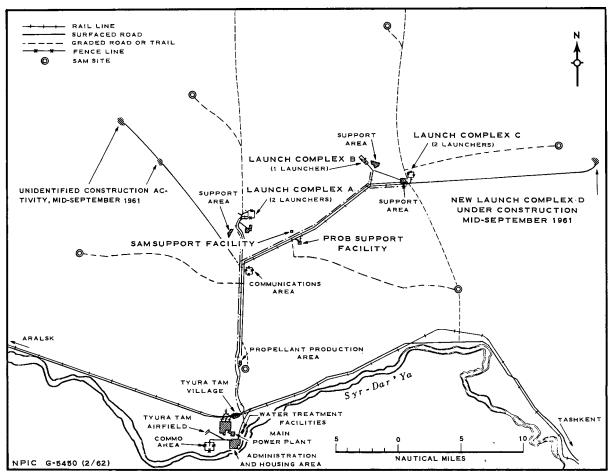


FIGURE 1. LOCATION OF THE TYURA TAM MISSILE TEST CENTER.

TH 0747-62KH III-T-1

ICBM launch site for second-generation missiles with a capability for training troops as well as testing deployment concepts and ground support equipment.

Launch Complex "A" (Figures 2 and 3)

This launch complex encompasses an area of about 9 square miles. It consists of Launch Sites 1-A, and 2-A and their support facilities. Approximately 6,500 feet from the launch sites is missile assembly and checkout facility no 1 for the horizontal checkout of missiles. Missile assembly and checkout facility no 2 for this launch complex is located approximately 1 nm south-southwest of facility no 1. Additional support facilities include a power substation, water storage tanks, a probable water treatment facility, personnel quarters, conventional storage facilities, and a vehicle park. There is an instrumentation control center and an interferometer type of tracking system.

Launch Site 1-A

This site consists primarily of a large rail-served missile launching structure, control bunker, and a 3-bay storage bunker. This structure, located on a concrete platform 135 feet square is situated on the western edge of a large pear-shaped pit. This pit is ______ at its deepest point and measures 880 by 550 feet.

Launch Site 2-A

This site consists of a road-served octagonal concrete launch pad, an adjoining rail spur, and at least one associated probable building. This site is reached by a service road and rail line. Launch Site 2-A is relatively simple when compared with Launch Site 1-A and appears to represent a radical change of launch site design. However, several similarities to facilities at Launch Complex "C" exist, as follows: size and shape of launch pad, road-served pads, and a physical separation of about 1,000 feet between this pad and the pad at Site 1-A.

TH 0747-62KH III-T-1

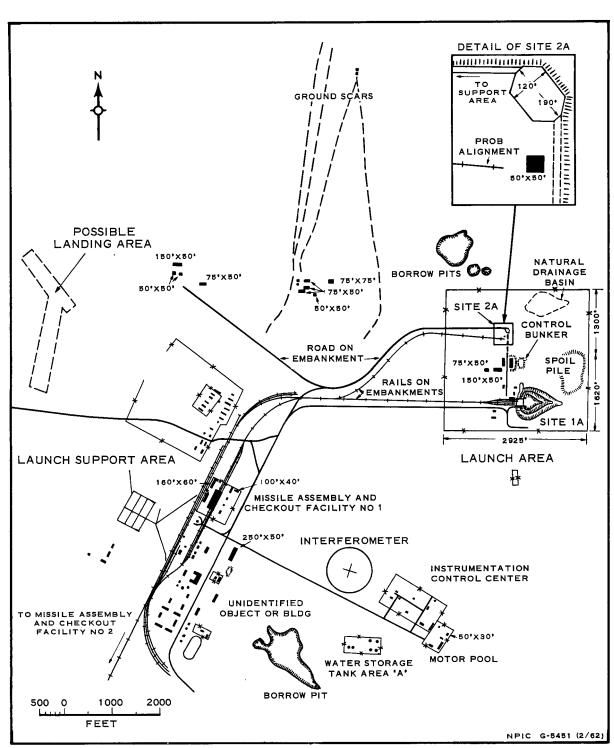


FIGURE 2. TYURA TAM LAUNCH COMPLEX "A".

TH 0747-62KH III-T-1



FIGURE 3. PHOTOGRAPH OF TYURA TAM LAUNCH COMPLEX "A".

TH 0747-62KH III-T-1

Launch Complex "B" (Figures 4 and 5)

This launch area contains a large pear-shaped pit, a large launching structure, a control bunker, a checkout and assembly building, a possible buried tank, and several other associated structures.

Launch Complex "C" (Figures 6 and 7)

This complex is different in configuration from Complexes "A" and "B". It contains two major components: (1) a double-fenced launch area containing two "soft" road-served launch pads and (2) a launch support area containing an assembly and checkout facility, a possible warhead handling facility, an administration and housing area, and a possible electronics facility.

The launch area consists of two octagonal launch pads, a control bunker, a possible missile-ready building centrally located and serving both launch pads, and two semiburied tanks.

Launch Complex "D" (Figure 8)

A fourth launch complex under construction has been observed on KEYHOLE photography about 10 nm east of Launch Complex "C".

25X1

TOP SECRET

TH 0747-62KH III-T-1

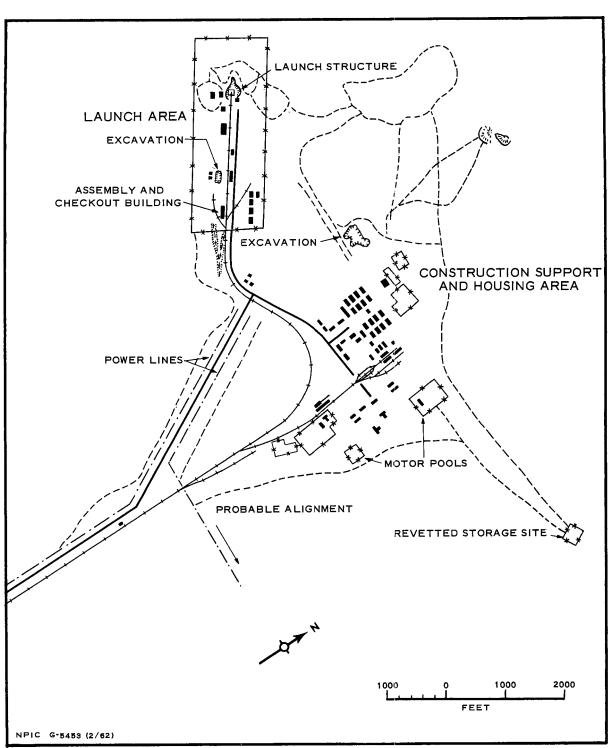


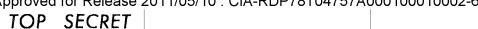
FIGURE 4. TYURA TAM LAUNCH COMPLEX "B".

TH 0747-62KH III-T-1



FIGURE 5. PHOTOGRAPH OF TYURA TAM LAUNCH COMPLEX "B".

TH 0747-62KH III-T-1



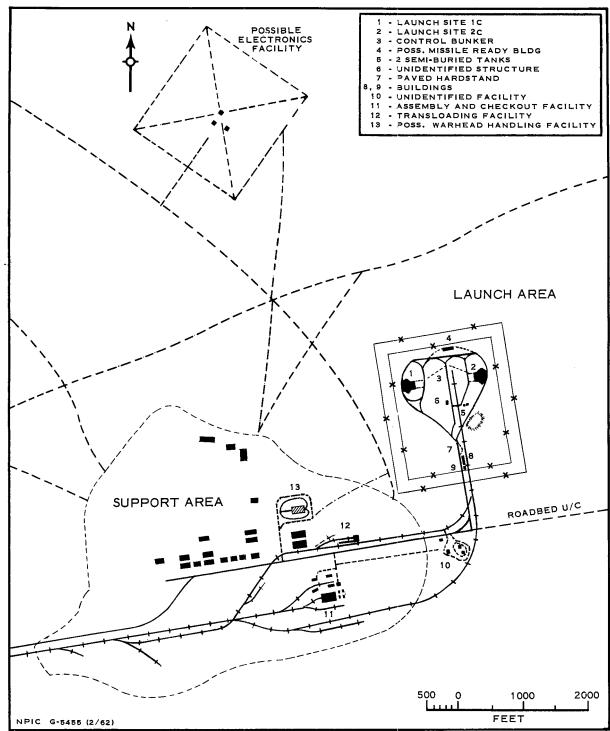


FIGURE 6. TYURA TAM LAUNCH COMPLEX "C".

TH 0747-62KH III-T-1



FIGURE 7. PHOTOGRAPH OF TYURA TAM LAUNCH COMPLEX "C".

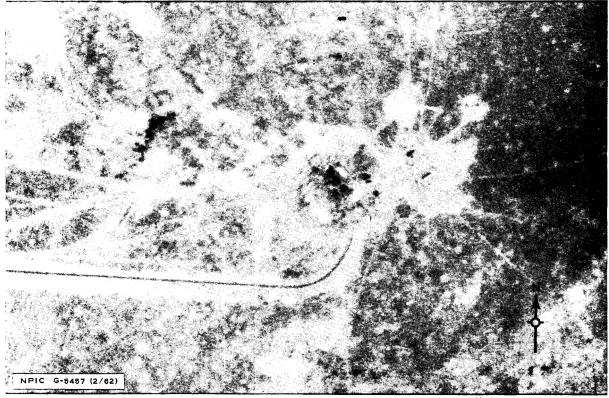


FIGURE 8. PHOTOGRAPH OF TYURA TAM LAUNCH COMPLEX "D".

Sanitized Copy Approved for Release 2011/05/10: CIA-RDP7	78T04757A000100010002-6
--	-------------------------

7	ro	D	C	F	C	D	F	T
- 1		7	ာ	בי		ĸ		ı

TH 0747-62KH III-T-1

25X1

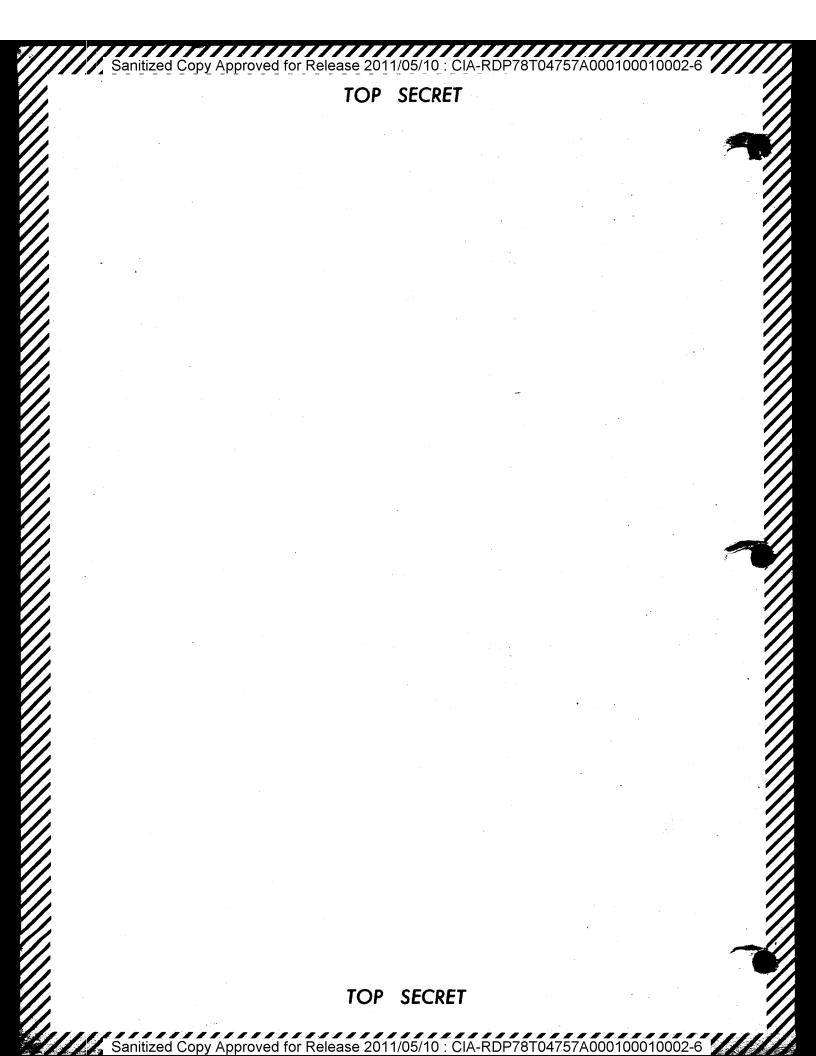
REFERENCES

MAPS OR CHARTS

USATC. Series 200, Sheet 0246-13A, 1st ed., Jan 58, Scale 1:200,000 (SECRET)

DOCUMENTS

OC OMEN 15	
CIA. TALENT Mission B 4035, 5 Aug 57 (TOP SECRET	25 X 1
CIA. TALENT Mission B 4058, 28 Aug 57 (TOP SECRET	25X1
CIA. TALENT Mission B 4125, 9 Jul 59 (TOP SECRET	25X1
CIA. TALENT Mission B 8009, 9 Apr 60 (TOP SECRET	25X1
Army. TAK-270-61, Apr 61 (TOP SECRET	25 X 1
AFIC. PIB/TB-61/78, Oct 61, (TOP SECRET	25 X 1
AFIC. PIB/TB-61/12, Jan 61 (TOP SECRET	25 X 1
AFIC. PIB/TB-61/13, Jan 61 (TOP SECRET	25X1
NPIC. JB-1011/61, Apr 61 (SECRET)	25X1



Sanitized Copy Approved for Release 2011/05/10 : CIA-RDP78T04757A000100010002-6

OP SFORE

top secret

Sanitized Copy Approved for Release 2011/05/10 : CIA-RDP78T04757A000100010002-